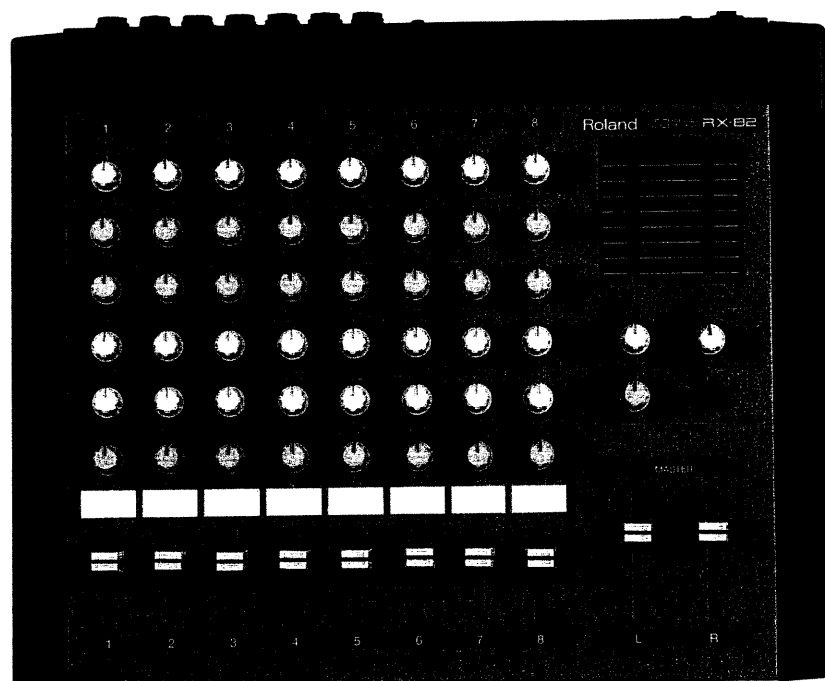




Roland®

8 CHANNEL STEREO MIXER

RX-82

Owner's Manual



	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR		
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



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 product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled onto the product; or
 - C. The product has been exposed to rain; or
 - D. The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

For the USA

This product may be equipped with a polarized line plug (one blade wider than the other) . This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

For Canada

For Polarized Line Plug

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.



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 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.
 Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.







USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About  WARNING and  CAUTION Notices








 WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
 CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.


About the Symbols

	The  symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The  symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The  symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.








ALWAYS OBSERVE THE FOLLOWING

WARNING

- Before using this unit, make sure to read the instructions below, and the Owner's Manual. 
- Do not open or perform any internal modifications on the unit. 
- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces. 
- Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it, etc. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has been damaged. 
- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit. 
- Protect the unit from strong impact. (Do not drop it!) 
- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through. 

- Before using the unit in a foreign country, consult with your dealer, or qualified Roland service personnel. 

CAUTION

- Always grasp only the plug on the power-supply cord when plugging into, or unplugging from an outlet. 
- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children. 
- Never climb on top of, nor place heavy objects on the unit. 
- Never handle the power cord or its plug with wet hands when plugging into, or unplugging from, an outlet. 
- Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices. 
- Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 9). 
- Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet. 

Thank you, and congratulations on your choice of the Roland RX-82 8 Channel Stereo Mixer.
The RX-82 is a convenient size and versatile, high-quality multi-purpose mixer.

** Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p. 2), "USING THE UNIT SAFELY" (p. 3), and "IMPORTANT NOTES". These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, this manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.*

Features

- The Roland RX-82 is a light weight, compact size multipurpose mixer with stereo outputs.
- Provided with the Gain and Treble Control Knobs, The RX-82 can take any sort of input such as a microphone or line.
- The Peak Indicators serve to achieve proper mixing with little noise and distortion.
- The Effect Send/Return jack are provided for connecting an external effect unit.
- Provided with the Headphones jack, the RX-82 allows you to control the volume balance while you are actually listening the sound.

Important Notes

In addition to the items listed under "IMPORTANT SAFETY INSTRUCTIONS" and "USING THE UNIT SAFELY" on pages 2 and 3, please read and observe the following:

Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

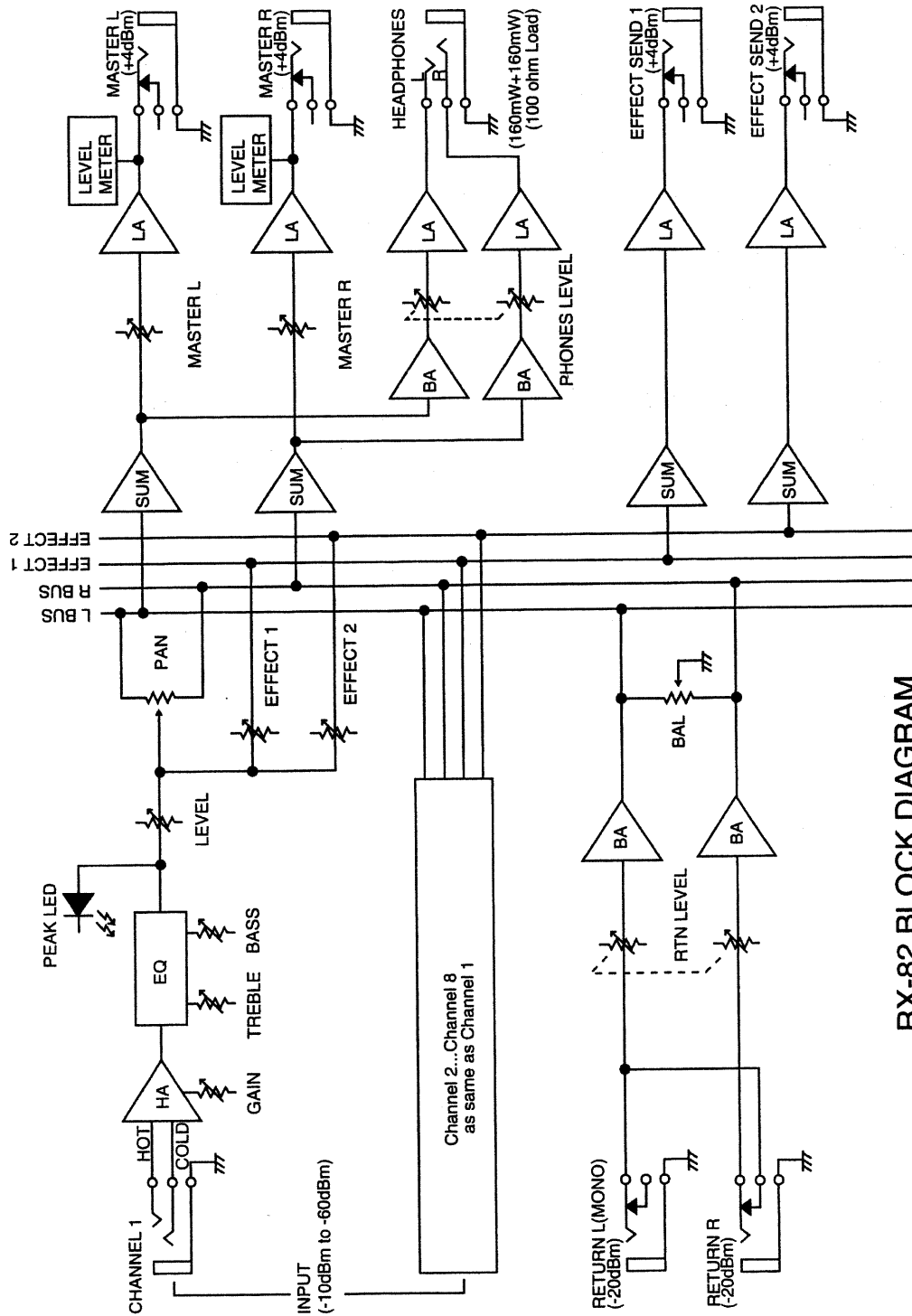
Additional Precautions

- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

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(1) Block Diagram

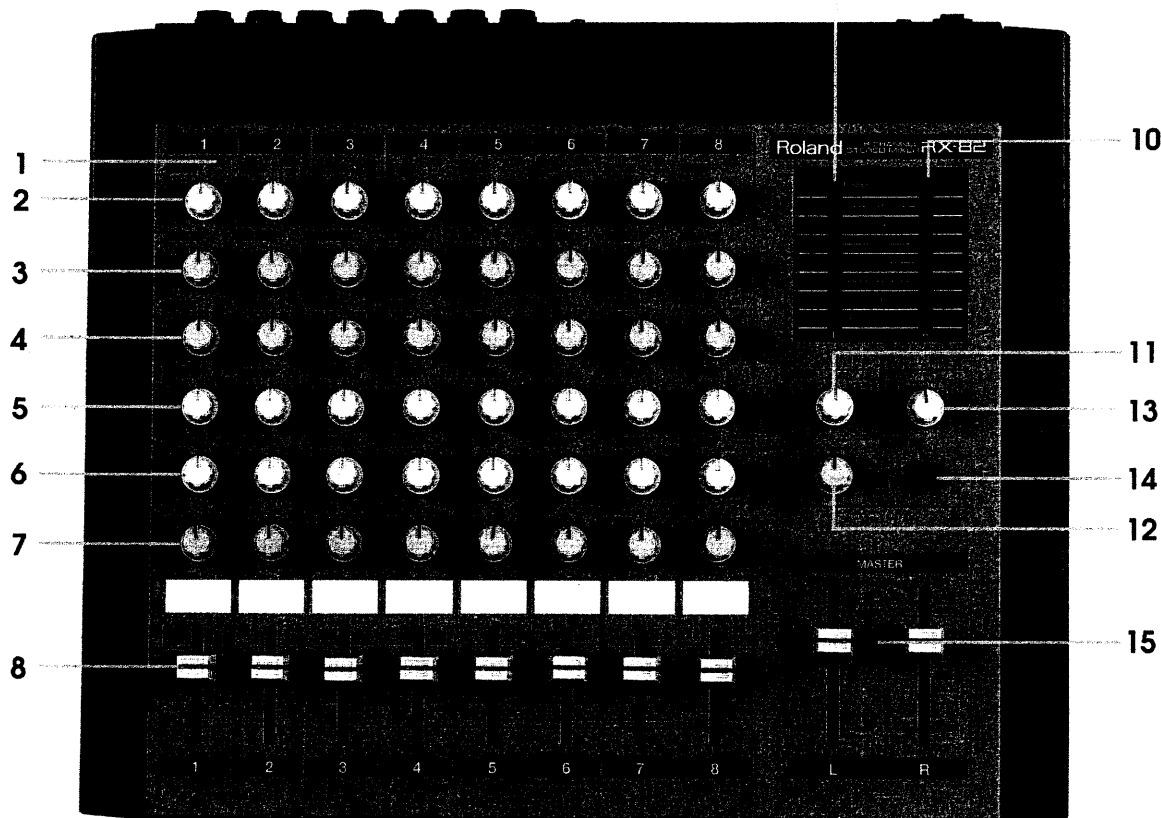


RX-82 BLOCK DIAGRAM

(2) Panel Descriptions

1. Channel Section

9



1. PEAK: Peak Indicator

This lights when the input signal level of each channel is too high. If so lower the input sensitivity by rotating the Gain knob of the relevant channel counterclockwise.

**The Peak indicator will light 6dB before clipping level (the level where distortion begins).*

2. GAIN: Gain Knob

To achieve mixing with the minimum noise or distortion, adjust the input gain using the Gain knobs. Clockwise rotation increases the gain (volume), while counterclockwise rotation decreases it.

3. TREBLE: Treble Knob

This knob adjusts the treble. Rotating it clockwise boosts the high frequency range, and rotating it counterclockwise cuts it.

4. BASS: Bass Knob

This adjusts bass sound. Rotating this clockwise boosts the low frequency range, and rotating it counterclockwise cuts it.

5. EFF1: Effect 1 Send Knob

This knob controls the level of the signals to be sent to the Effect 1 Send Jack. Clockwise rotation increases the level. For instance,

when a reverb unit is connected to the Effect 1 Send/Return Jacks, rotating this knob clockwise will deepen the reverb effect.

**The output from the Effect 1 Send is post fader, and therefore changes depending on the positions of the Gain, Treble, Bass and Channel Fader.*

6. EFF2: Effect 2 Send Knob

This knob controls the level of the signals to be sent to the Effect 2 Send Jack. Clockwise rotation increases the level. For instance, when a reverb unit is connected to the Effect 2 Send/Return Jacks, rotating this knob clockwise will deepen the reverb effect.

**The output from the Effect 2 Send is post fader, and therefore changes depending on the positions of the Gain, Treble, Bass and Channel Fader.*

7. PAN: Panpot Knob

Each Panpot Knob routes the input signal from an Input Channel to the left and/or right mixing busses. By means of the Panpot Knobs, input signals can be sent exclusively to one mixing bus, or the other, to both mixing busses equally or since the Panpot Knob is continuously variable to both mixing busses in any relative proportion desired.

8. Channel Fader

This adjusts the level of the signal sent from each channel. Raising the slider will increase the level, and lowering it will decrease. 7 to 8 position may be ideal for the lowest noise and distortion.

9. POWER:Power Indicator

This lights up when the unit is turned on.

10. Level Meter (L, R)

These indicate the level of the output signals. When "0" of the Level Meter is lit, the output level is +4dBm from the standard phone jack.

11. RTN:Effect Return Knob

This knob controls the mixing level of the signal returned to the Effect Return Jacks L (MONO), R from the external effect (delay, reverb, etc). Clockwise rotation increases the level. Effect Send/Return Jacks, this knob controls the overall volume of the reverb sounds while the Effect Send Knob controls the reverb level of each channel.

12. BAL:Balance Knob

Balance knob routes the input signal from an Effect Return Jacks L (MONO), R to the left and/or right mixing busses. By means of the Balance Knob, input signals can be sent exclusively to one mixing bus, or the other, to both mixing busses equally or since the Balance knob is continuously variable to both mixing busses in any relative proportion desired.

13. LEVEL:Headphones Level Knob

As you rotate this knob clockwise, the headphones volume increases, while counterclockwise rotation decreases it.

****The volume of the headphones can be monitored as adjusted with the Headphones Level knob regardless of the Master Faders.***

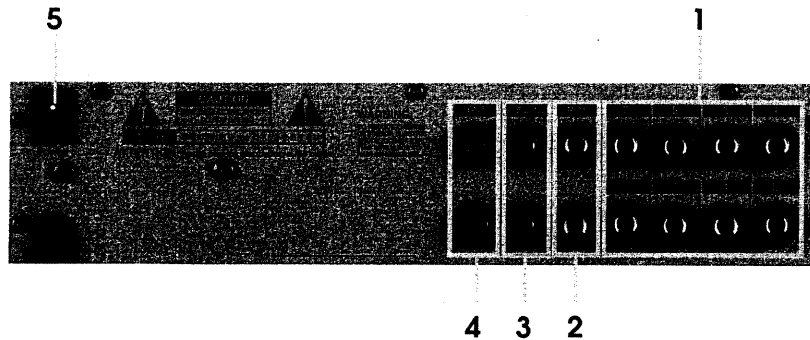
14. PHONES:Headphones Jack

This is to connect to stereo headphones.

15. MASTER L, R:Master Faders (L, R)

These are two independent controls which control the volume of the left and right channels. Raising the fader (toward the "10" position) increases the volume, while lower it (toward the "0" position) decreases it. The optimum position of the Master Fader is where the red indicator of the Level Meters lights up occasionally.

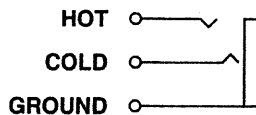
2. Rear Panel



1. Input Jacks (1~8)

Input Jacks used for connecting microphones or electronic musical instruments. Since stereo standard phone jacks are employed, balanced input is made possible. The input will be unbalanced if standard phone plugs are used.

**The pin assignment for the standard phone jacks is as shown below. Before making any connections, make sure that this pin assignment is compatible with that of all your other devices.*



2. RTN L(MONO), R:Effect Return Jacks L (MONO), R

This is to connect the outputs of an external effect unit (e.g. delay, reverb, etc). The signal fed into this jack is volume-adjusted with the Effect Return knob, then mixed with the output signal.

3. EFF SEND 1, 2:Effect Send Jacks (1, 2)

This is to connect the input of an external effect unit (e.g. delay, reverb, etc). Through this jack, the Signal adjusted with the Effect (1, 2) Send Knob in each channel (1 to 8) is sent out.

4. OUT L, R:Output Jacks (L, R)

These are to connect a power amplifier or recording equipment, etc.

5. Power Switch

This turns on or off the mixer. When it is turned on, the Power Indicator lights up.

**Turn on or off the mixer with the Master Faders (14) set to zero.*

(3) Setup and Operation

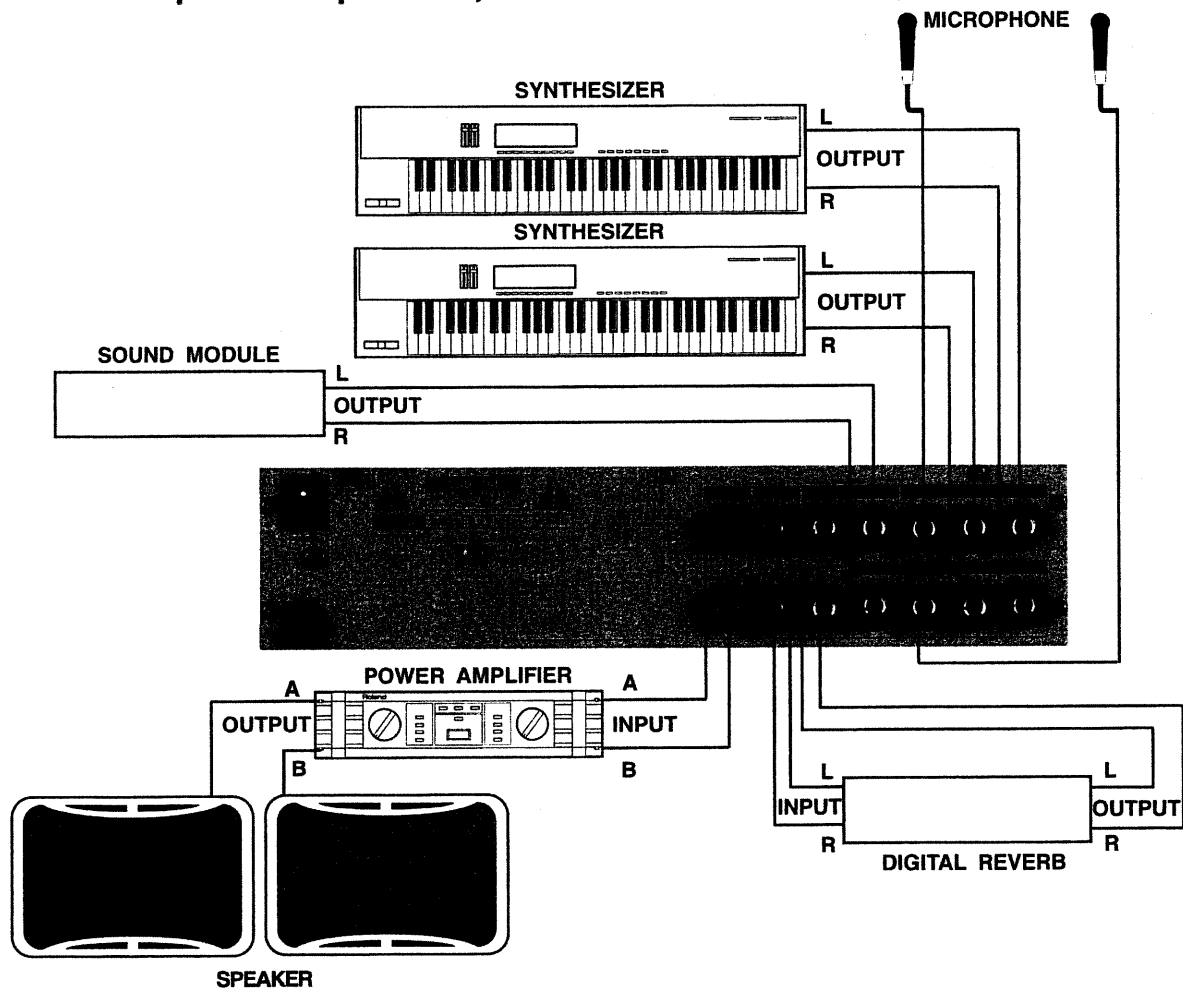
**Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.*

SOUND SOURCE – RX-82 – POWER AMPLIFIER

Starting Up

- (1) After confirming that the Power Switch is off, plug the unit in.
- (2) Connect all the equipment (mics, instruments etc.) that you are going to use. (refer to the illustration)
- (3) Set all knobs to "0".
- (4) After all connections have been double checked, turn on all the input sources and then power up the mixer itself. (When powering down, turn off the mixer first and then all input sources)
**This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.*

Basic Setup : Microphones, Electronic Instruments, etc.



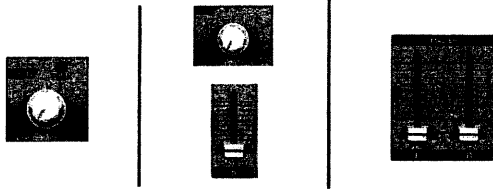
** To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.*

** Howling could be produced depending on the location of microphones relative to speakers. This can be remedied by:*

1. Changing the orientation of the microphone(s).
2. Relocating microphone(s) at a greater distance from speakers.
3. Lowering volume levels.

Operation

- (1) Make all the necessary connections, then set each Gain Knob to "LINE" position, and set each Channel Fader, Master Fader and Effect Return Knob to the "0" position.



- (2) Turn the mixer on and make sure that the Power Indicator lights up.
 (3) Turn on the units connected to the Output Jacks, such as a power amplifier etc.
 (4) Set the Channel Fader and Master Fader to "7" position.



- (5) Adjust the level balance at each channel with the Gain Knobs.



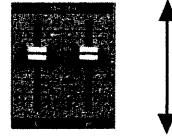
*** To prevent inconsistency of each channel balance caused by moving the Channel Fader, use only the Gain Knob for adjusting the balance of each Channel and use the Channel Fader only for Fade In or Fade Out.**

- (6) Set the sound imaging positioning with the Panpot Knob of each channel.



***When feeding from stereo source (e.g. keyboard or tape), use two channels, with the Panpot of the left (L) output rotated fully counterclockwise and the Panpot of the right (R) output fully clockwise.**

- (7) Adjust the Master Faders depending on the level of the external device.

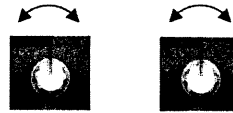


(Effect Setting)

- (1) Set the external effect units to your taste.
 (2) Set the mixing level of the effect sound using the Effect Return Knob.
***Usually, set this to the "5" position (To increase the level of the effect sound, set to a higher number position.)**



- (3) Adjust the balance of effect sound using the Effect Send Knob of each channel.



- (4) Set the effect sound imaging positioning with the Balance Knob.



(Headphones Level Setting)

- (1) Adjust the output level of the headphones using the Headphones Level Knob.



***Changing the headphones level does not affect the output level of the unit.**

Specifications

RX-82: 8 Channel Stereo Mixer

Frequency Response

20 Hz to 50 kHz +1 / -3 dB (at minimum gain)

Nominal Input Level

Input: -60 dBm to -10 dBm

Effect Return: -20 dBm

Input Impedance

Input: 42 k Ω

Effect Return: 10 k Ω

Nominal Output Level

Output: +4 dBm

Effect Send: +4 dBm

Output Impedance

Output: 2 k Ω

Effect Send: 2 k Ω

Recommended Load Impedance

Output: 20 k Ω or greater

Effect Send: 20 k Ω or greater

Headphones: 8 to 100 Ω

Headphones Output

160 mW + 160 mW (100 Ω load)

Total Harmonic Distortion

0.05 % or less

(minimum gain, 20 Hz to 20 kHz at nominal output)

Equivalent Input Noise Level

-110 dBm (input terminated with 150 Ω , IHF-A, typ.)

Equalizer

Treble: +12 / -12 dB (10 kHz)

Bass: +12 / -12 dB (100 Hz)

Controls

Gain Knobs x 8

Treble Knobs x 8

Bass Knobs x 8

Effect 1 Send Knobs x 8

Effect 2 Send Knobs x 8

Panpot Knobs x 8

Channel Fader x 8

Effect Return Knob

Balance Knob

Headphones Level Knob

MASTER Faders x 2 (L, R)

POWER Switch

Indicators

POWER Indicator

Peak Indicators x 8

Level Meters x 2 (L, R)

Connectors

INPUT Jacks x 8 (Stereo 1/4 inch phone type)

Effect Send Jacks x 2 (1, 2)

Effect Return Jacks x 2 (L (MONO), R)

Output Jacks x 2 (L, R)

Headphones Jack

Power Supply

AC 117 V, AC 230 V (50/60Hz)

Power Consumption

23W, 12W

Dimensions

360 (W) x 304 (D) x 100 (H) mm

14-3/16 (W) x 12 (D) x 3-15/16 (H) inches

Weight

4.5kg / 9 lbs 15 oz

Accessories

Owner's Manual

** 0 dBm = 0.775 Vrms*

** In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.*



This product complies with the requirements of European Directive 89/336/EEC.

For Europe

Information

When you need repair service, call your local Roland Service Station or the authorized Roland distributor in your country as shown below.

ARGENTINA

Instrumentos Musicales S.A.
Florida 638
(1005) Buenos Aires
ARGENTINA
TEL: (01) 394 4029

BRAZIL

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203 05522-010
Sao Paulo BRAZIL
TEL: (011) 843 9377

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TEL: (604) 270 6626

Roland Canada Music Ltd.
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TEL: (525) 668 04 80

La Casa Wagner de
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Musicland Digital C.A.
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Roland Corporation (NZ) Ltd.
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Auckland 3, NEW ZEALAND
TEL: (09) 3098 715

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Tom Lee Music Co., Ltd.
Service Division
22-32 Pun Shan Street, Tsuen
Wan, New Territories,
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Kompleks Perkantoran Duta
Merlin Blok E No.6-7
Jl. Gajah Mada No.3-5, Jakarta
10130,
INDONESIA
TEL: (021) 3850073

KOREA

Cosmos Corporation
Service Station
261 2nd Floor Nak-Won Arcade
Jong-Ro ku, Seoul, KOREA
TEL: (02) 742 8844

MALAYSIA

Bentley Music SDN BHD
No.142, Jalan Bukit Bintang 55100
Kuala Lumpur, MALAYSIA
TEL: (03) 2443333

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Makati, Metro Manila 1200,
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Bras Basah Complex,
SINGAPORE 0718
TEL: 3367886

CRISTOFORI MUSIC PTE LTD

335, Joo Chiat Road SINGAPORE
1542
TEL: 3450435

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TEL: (06) 641200

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Easa Husain Al-Yousifi
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KUWAIT
TEL: 5719499

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Chahine Building, Achrafieh
Beirut, LEBANON
TEL: (01) 335799

OMAN

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Co. LLC
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Sultanate of OMAN
TEL: 706 010

QATAR

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DOHA QATAR
TEL: 423554

SAUDI ARABIA

SAF Music Center
AL-Khobar 31952, P. O. Box 1366
SAUDIARABIA
TEL: (03) 898 3311

Abdul Latif S. Al-Ghamdi
Trading Establishment
Middle East Commercial Center
Al-Khobar Dharan Highway
W/hamood st.
P. O. Box 3631 Al-Khobar
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Technical Light & Sound
Center
Khaled Ebn Al Walid St.
P.O.Box 13520
Damascus - SYRIA
TEL: (011) 2235 384

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Barkat Sanayi ve Ticaret
Siraselvler Cad. Guney Ishani No.
86/6 Taksim, Istanbul TURKEY
TEL: (0212) 2499324

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Electronics Co.
Zabeel Road, Al Shurooq Bldg.,
No. 14, Grand Floor DUBAI
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TEL: (04) 360715

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Al Fanny Trading Office
9, Ebn Hagar Ai Askalany Street,
Ard El Golf, Heliopolis, Cairo,
11341 EGYPT
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REUNION

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