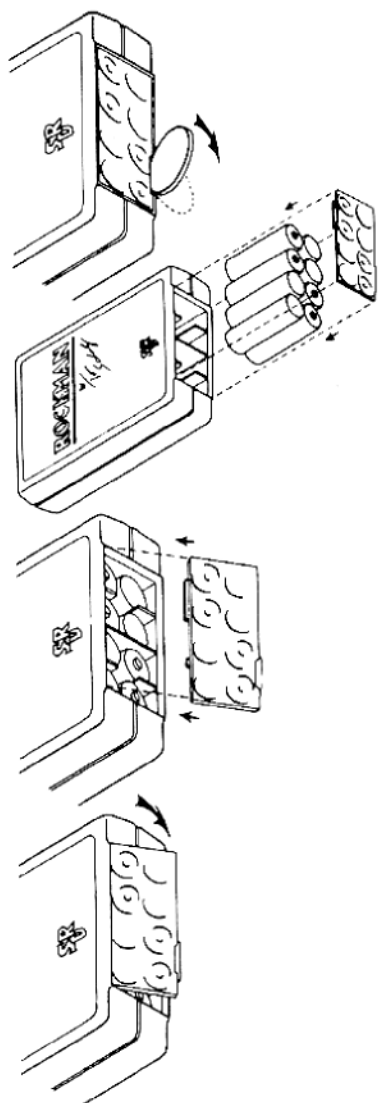


ROCKMAN™

X100



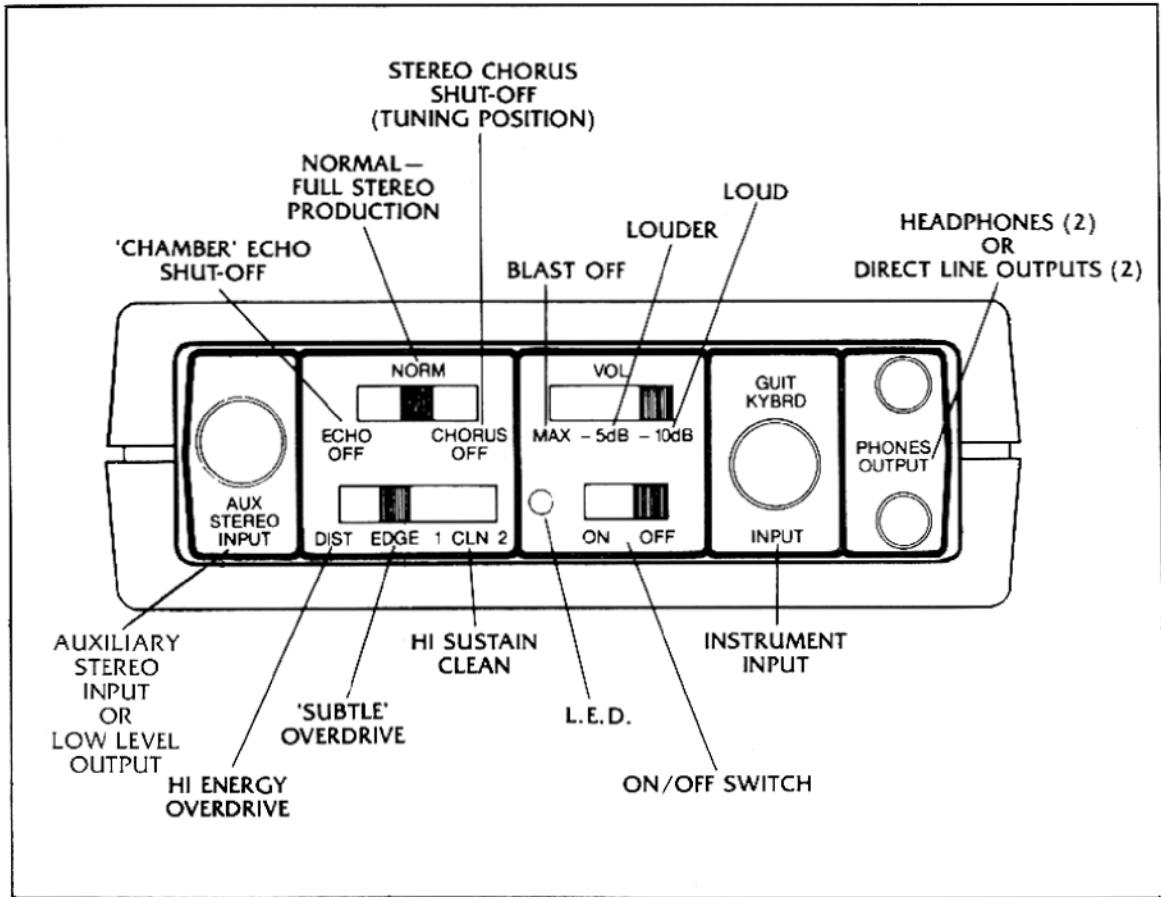
OPERATING INSTRUCTIONS



battery insertion

- 1.** Using a large coin, remove the snap lock battery door located at the bottom of the **ROCKMAN**. Install the eight (8) AA batteries as shown in the illustration. Battery terminals should correspond to the diagram on the battery door. Replace and snap battery door shut as shown. Alkalines suggested.
- 2.** Plug your electric guitar or piano into the INSTRUMENT INPUT jack.
- 3.** Plug the **ROCKMAN** lightweight stereo headphones into either PHONE OUTPUT jack.
- 4.** Switch power to ON position. L.E.D. will blink slowly to indicate the **ROCKMAN** is ready for use. If L.E.D. does not blink, either the batteries are inserted incorrectly or the battery voltage is low.
- 5.** Switch to CHORUS OFF to tune your instrument.
- 6.** To avoid undesirable distortion in the CLEAN settings and to achieve maximum sustain performance, preamp GAIN control should be properly adjusted. (See GAIN ADJUSTMENT section.)
- 7.** Weak batteries or batteries inserted incorrectly will cause distortion in CLEAN settings, may stop the CHORUS from working, and may cause the signal to be lost in one side of the headphones.
- 8.** Instead of using batteries, you can insert the **AC POWER ROCKADAPTOR**, available separately.

CONTROL PANEL



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- INSTRUMENT INPUT . . .** Accepts electric guitar, keyboards, high impedance microphones, or high impedance pickups.
- AUX STEREO INPUT** A stereo hifi system, tape deck, radio, or another **ROCKMAN** may be plugged into this input for playing along with recorded music or another musician. (See INTERCONNECTIONS section for hook-ups.)
- PHONES/OUTPUT** Each stereo minijack output can drive one pair of headphones or provide a line level signal for:
- 1) a live sound system
 - 2) a studio mixing board
 - 3) a cassette or tape deck
 - 4) a stereo system
- (See INTERCONNECTIONS section for hook-ups.)
- VOLUME SWITCH** Three levels of loudness. (WARNING: EXTENDED USE AT LOUD LEVELS MAY BE HAZARDOUS TO YOUR HEARING.)
- NORMAL** Provides fully produced sound with both stereo echo and stereo chorus. The chamber echo produces true stereo reverberation. The stereo chorus is a direct reproduction of Tom Scholz' custom built doubler. It provides a delayed signal with altered pitch panned predominantly to one side of the stereo outputs.
- ECHO OFF** This setting turns the echo off.
- CHORUS OFF** This setting turns the chorus off.
- DISTORTION** Hi energy overdrive and sustain with multiple stages of pre-set EQ and filtering. The X100 distortion circuit provides rock steady initial sustain which makes lead playing easy and fluid.
- EDGE** The X100 EDGE circuit provides either clean or distorted rhythm sounds by adjusting your guitar volume knob. The signal will remain clean at reasonably high volume levels without significant distortion. Turning the guitar volume to full produces moderate distortion sustain and a subtle "edge" of distortion to lead parts.
- CLEAN 1 & 2** Two differently equalized settings giving you crystal clean sound with hi power sustain. The CLN 2 setting is suitable for a wide range of instruments including vocal microphones and acoustic pickups.
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RECOMMENDED SETTINGS

For Use with Guitar

ROCK	DIST or EDGE
RHYTHM AND BLUES	CLN 1 or EDGE
COUNTRY	CLN 1, 2 or EDGE
JAZZ	CLN 2

Adjust GAIN control as required to avoid distortion or increased sustain. Guitars with active electronics may overdrive the input stage of the **ROCKMAN**. Reduce **ROCKMAN** GAIN control and guitar volume as required to avoid distortion in the CLEAN settings.

For Use with Keyboards

ELECTRIC PIANO and ORGAN	CLN 2
SYNTHESIZER	CLN 2 or DIST

For most keyboards, the GAIN should be set on MAX and the keyboard volume reduced as necessary to avoid distortion. Some keyboards have built-in preamps with high output levels which can overdrive the **ROCKMAN** input stage if turned up too high. For keyboards with high background noise levels, the **ROCKMAN** GAIN may be set at MIN to help reduce noise.

For Use with Vocal Microphones and Acoustic Pickups

VOCAL MICROPHONES ...	CLN 2
ACOUSTIC PICKUPS	CLN 2

The **ROCKMAN** will only accept high impedance pickups and microphones. For use with low impedance pickups and microphones, a separate line matching transformer must be used between the **ROCKMAN** and the pickup or microphone.

GAIN ADJUSTMENT PROCEDURE

Located on the back of the **ROCKMAN**, the **GAIN** control adjusts for the differences in instrument output levels and enables the musician to increase or decrease the sustain and compression. A total adjustment range of $\pm 8\text{dB}$ provides for all pickup types and playing styles.

The **GAIN** knob controls the level in the preamp section of the **ROCKMAN** and affects all settings.

Rotate clockwise to increase sustain and compression. Rotate counterclockwise to reduce sustain and compression. Increasing **GAIN** causes the highs to be automatically reduced, to compensate for weaker pickups, which are usually brighter.

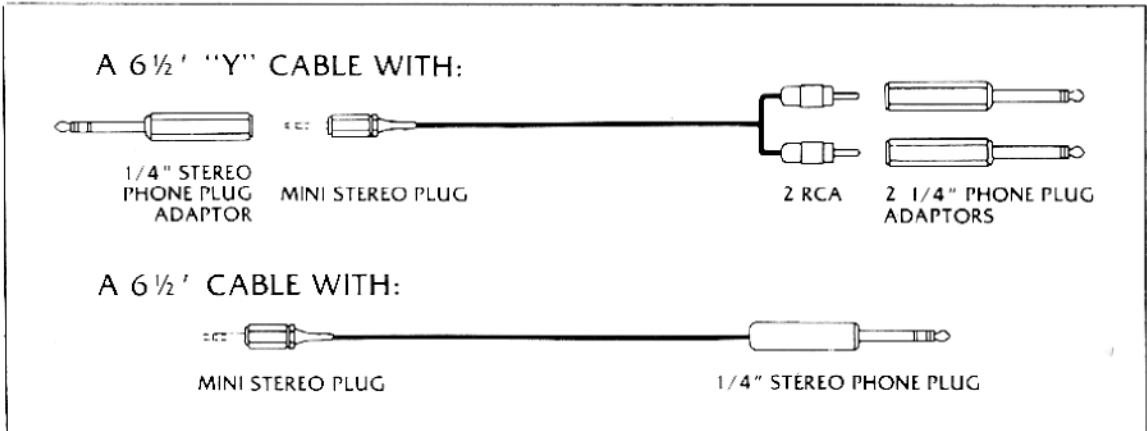
NOTE: Adjustments may be made with a small screwdriver or by hand. A hum may be noticed while touching the **GAIN** control: this is normal.

- CLN 2** Clipping distortion will occur for high power pickups at high **GAIN** settings. The guitar volume may be reduced to eliminate distortion if the user wishes to leave the **GAIN** at a high position (to attain high sustain in the other settings).
- CLN 1** For most guitars, clipping distortion will not be audible even for very high **GAIN** settings, thus allowing for greater compression and sustain. However, guitars with very bright highs may cause audible clipping in this mode at high **GAIN** settings.
- EDGE & DIST** The **GAIN** knob acts as an overdrive control in **EDGE** and **DIST**. The higher the **GAIN**, the more distortion and sustain.

When the **GAIN** is set to $+8\text{dB}$ in **EDGE**, the overdrive is roughly equal to the overdrive in **DIST** with **GAIN** at -8dB . Thus, virtually any amount of overdrive distortion from clean to heavy is available by switching between **EDGE** and **DIST** and adjusting the **GAIN** control.

INTERCONNECTIONS

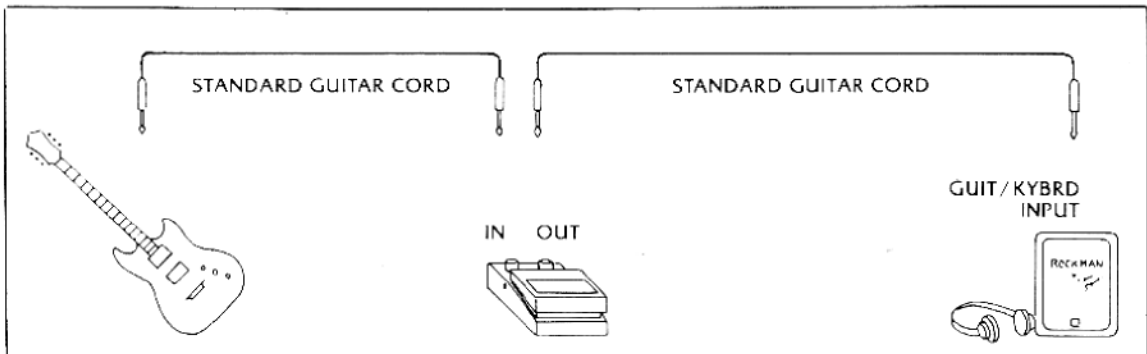
CABLE KIT (MUST BE PURCHASED SEPARATELY.)



NOTE: Use only STEREO mini plugs in the output jacks of the **ROCKMAN**. Mono plugs short one channel of the **ROCKMAN** causing high pitched squealing or feedback.

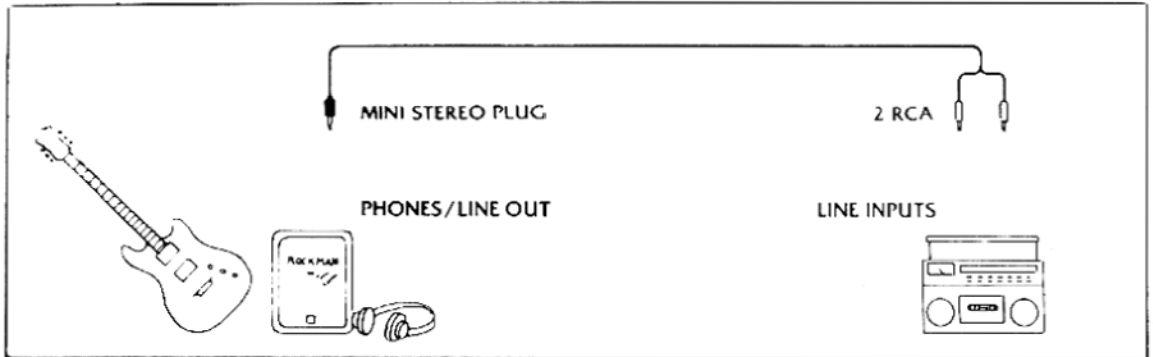
Do not connect the left and right outputs together with a "Y" cord or feedback will occur. If necessary, one RCA may be used separately.

To Use Accessories with the Rockman

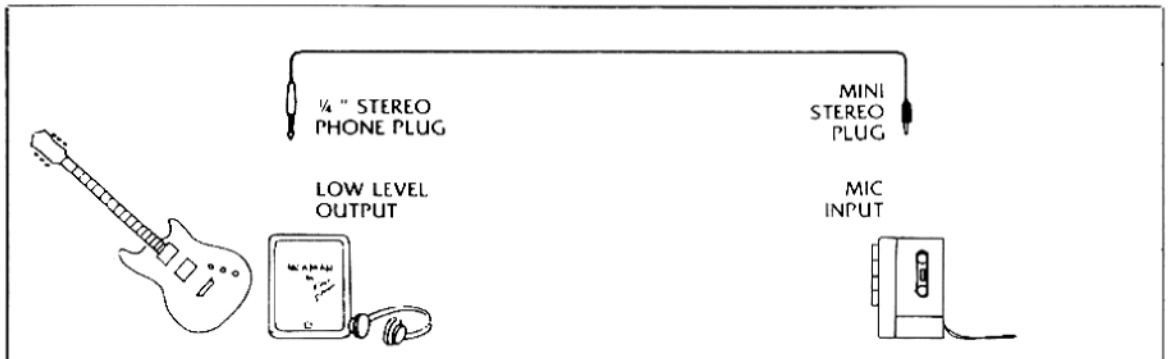


To Record with the Rockman

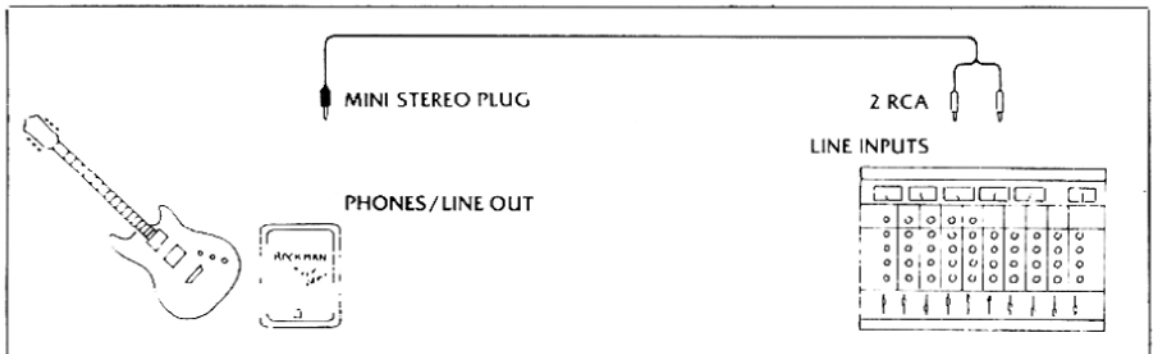
1. INTO A CASSETTE TAPE PLAYER



2. INTO A PORTABLE CASSETTE/RADIO



3. THROUGH A MIXING BOARD

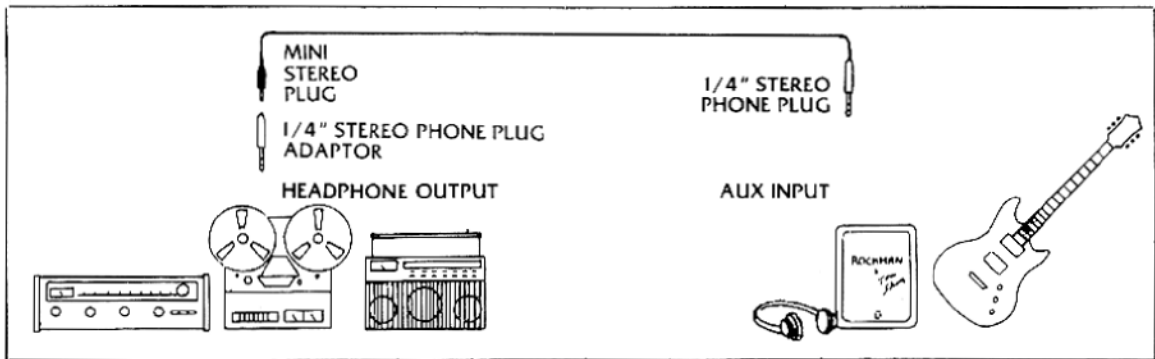
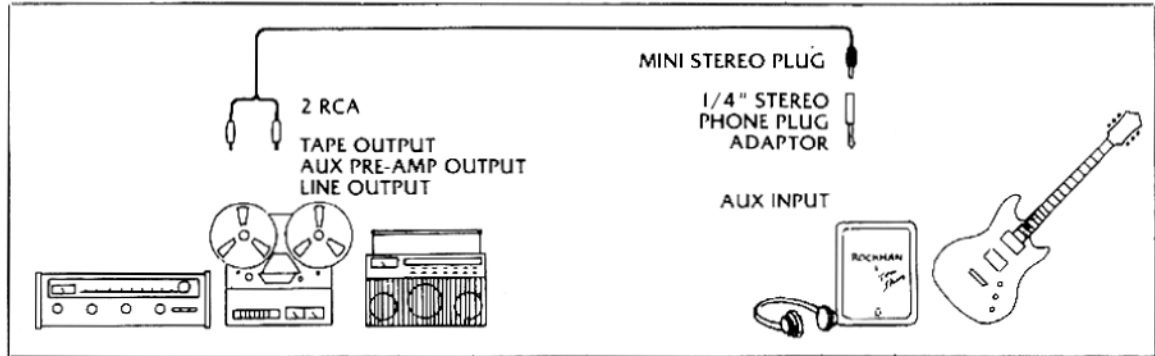


1) Use two separate channels; 2) Plug into line inputs; 3) For stereo (recommended), pan channels full left and full right; 4) **ROCKMAN** volume should be switched to maximum.

NOTE: **ROCKMAN** headphones provide a slight additional tonal coloration. To duplicate this, boost treble band +3dB to +6dB at 4 KHz, boost mid band +3dB to +6dB at 500 Hz, and cut bass band -4dB to -6dB at 200 Hz.

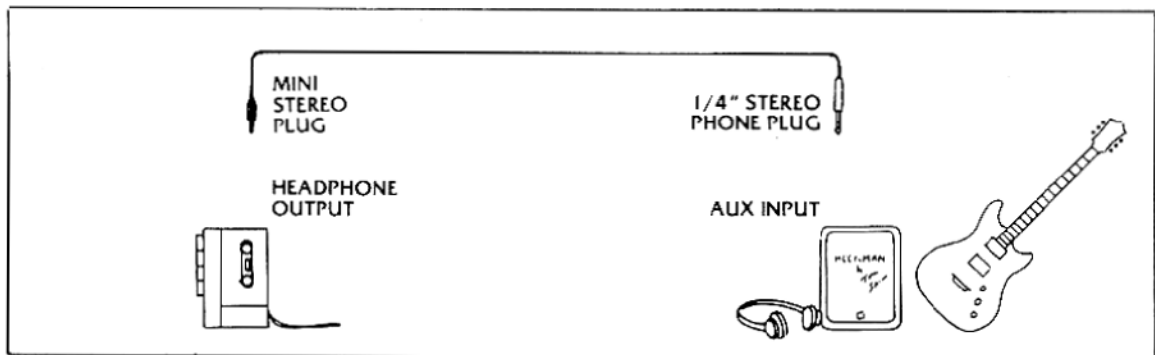
To Play Along with Records, Tapes, Radio

1. USING A HOME STEREO SYSTEM



This hook-up allows the level of the accompanying music to be controlled by the volume level of the stereo receiver or tape deck.

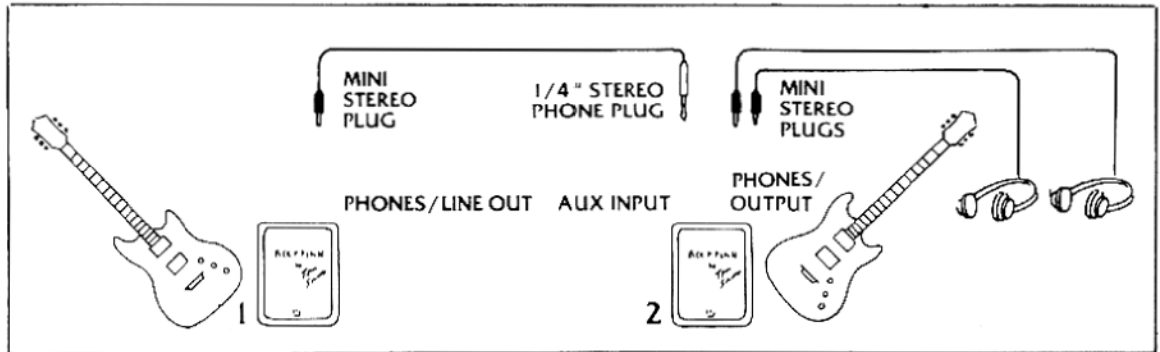
2. USING A PORTABLE CASSETTE/RADIO



NOTE: If playing along with a mono cassette player/radio, a cable with a mono 1/4" phone plug may be inserted halfway into AUX INPUT to provide sound in both earphones. The standard **ROCKMAN** cable provides sound in only one ear.

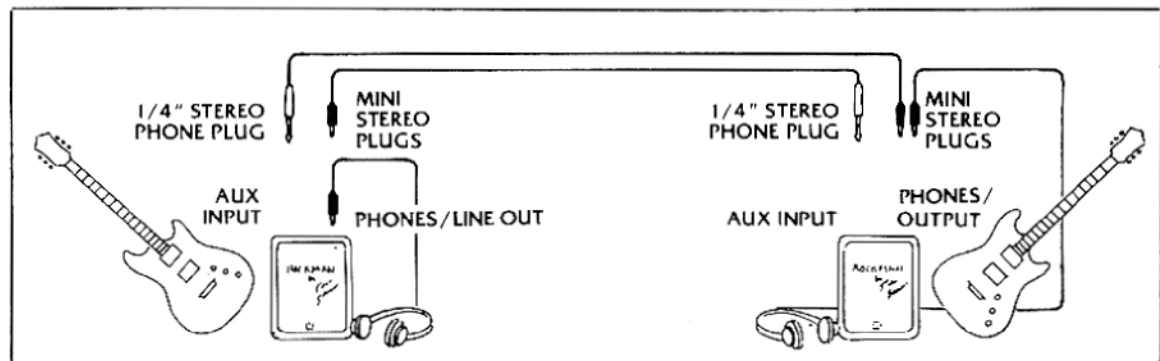
To Play Along with Another Musician

1.



ROCKMAN #1 volume controls the relative mix of both guitars. **ROCKMAN #2** volume controls the overall volume in both headphones.

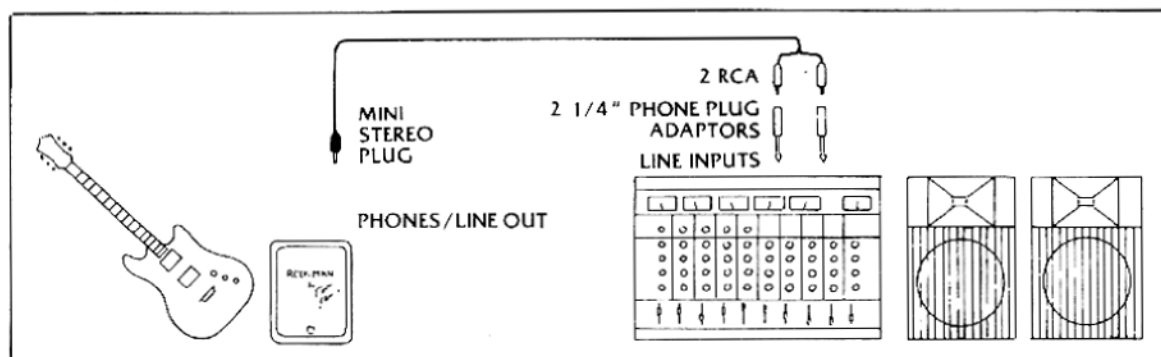
2.



IMPORTANT: Volume controls of the **ROCKMAN** amps are interdependent in this hook-up. Use both units at **-5dB VOL**. **CAUTION:** Do not use **MAX VOL**. This method makes each musician's guitar sound slightly louder in his own headphones.

To Play Live

1. DIRECT THROUGH A PA/MIXING BOARD

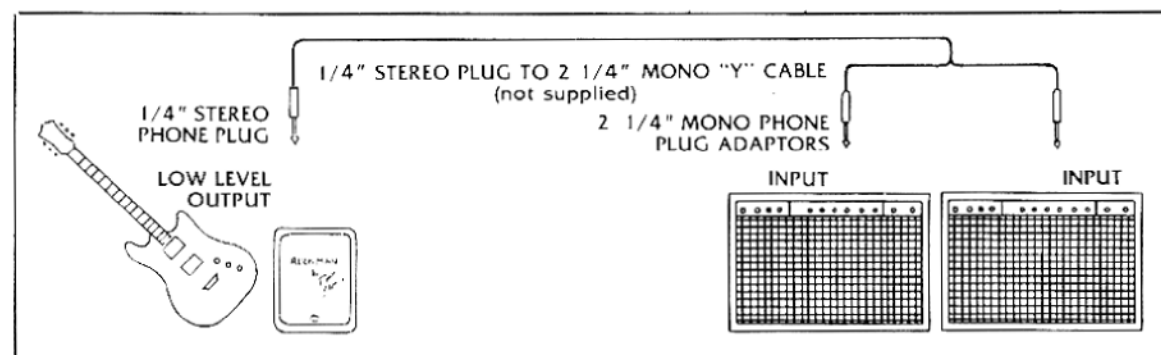


1) Use two separate channels; 2) Plug into line inputs; 3) For stereo (recommended), pan channels full left and full right; 4) **ROCKMAN** volume should be switched to maximum.

2. THROUGH A MUSICAL INSTRUMENT AMPLIFIER

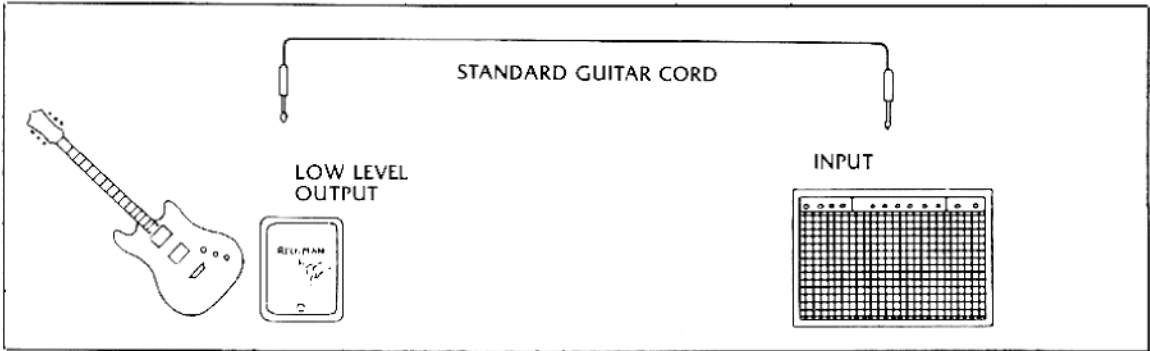
The **ROCKMAN** sound quality is compromised by playing directly through your amplifier but by adjusting your EQ setting, you can get acceptable results.

STEREO



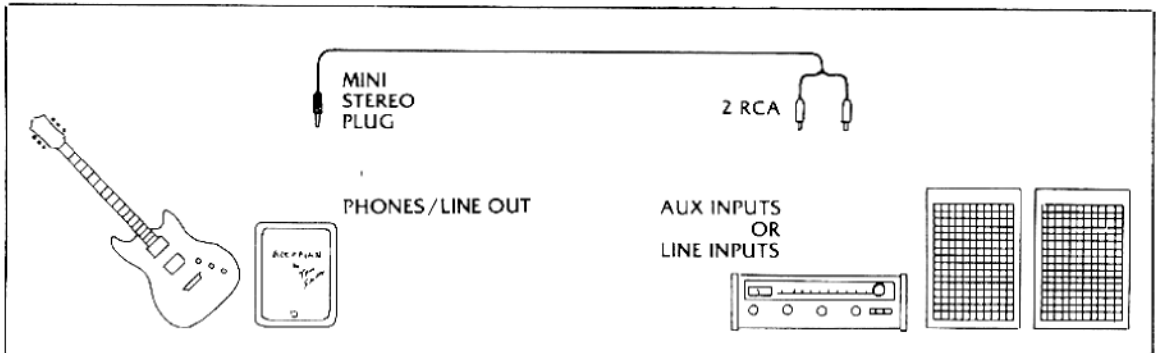
NOTE: Amplifiers need not be identical, but care must be taken to adjust the tone controls for acceptable sound on each amp separately by turning on one amp at a time until the sounds are balanced.

MONO



NOTE: Inserting phone plug fully into the **ROCKMAN LOW LEVEL OUTPUT** will give you only one of the stereo **ROCKMAN** sends so **CHORUS** effects will be reduced. By pulling the phone plug out one "notch" (about $\frac{1}{4}$ "), both **ROCKMAN** outputs will be provided, completely mixed as a mono send for your amp.

To Play Through a Home Stereo



NOTE: Bass level on stereo should be reduced. Also remember that excess volume levels can damage speakers.

ACCESSORIES

1. FOLDING LIGHTWEIGHT STEREO HEADPHONES
2. INTERCONNECTION CABLES
3. A/C POWER ADAPTOR

ACCESSORIES ARE NOT INCLUDED AND MAY BE PURCHASED SEPARATELY.

SPECIFICATIONS

Instrument Input

MAXIMUM LEVEL 2 VOLTS
INPUT IMPEDANCE OVER 1 MEG OHMS

Auxiliary Input

MAXIMUM LEVEL8 VOLTS
INPUT IMPEDANCE 33 KIL OHMS

Outputs

MAXIMUM LEVEL 1 VOLT RMS
MINIMUM LOAD IMPEDANCE . . . 8 OHMS

Battery Life

APPROXIMATELY 35 HOURS WITH ALKALINES

Dimensions

6.2"L x 4.2"W x 1.4"H

Weight

15 oz

Warranty

X100: ONE (1) YEAR, PARTS AND LABOR
HEADPHONES: NINETY (90) DAYS, PARTS AND
LABOR

The **ROCKMAN** is another in a continuing line of high quality, innovative and reasonably priced products for the serious musician. Designed and manufactured in the USA by Scholz Research and Development, 1560 Trapelo Rd., Waltham, MA 02154.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTIFICATION.



Scholz Research & Development, Inc.