

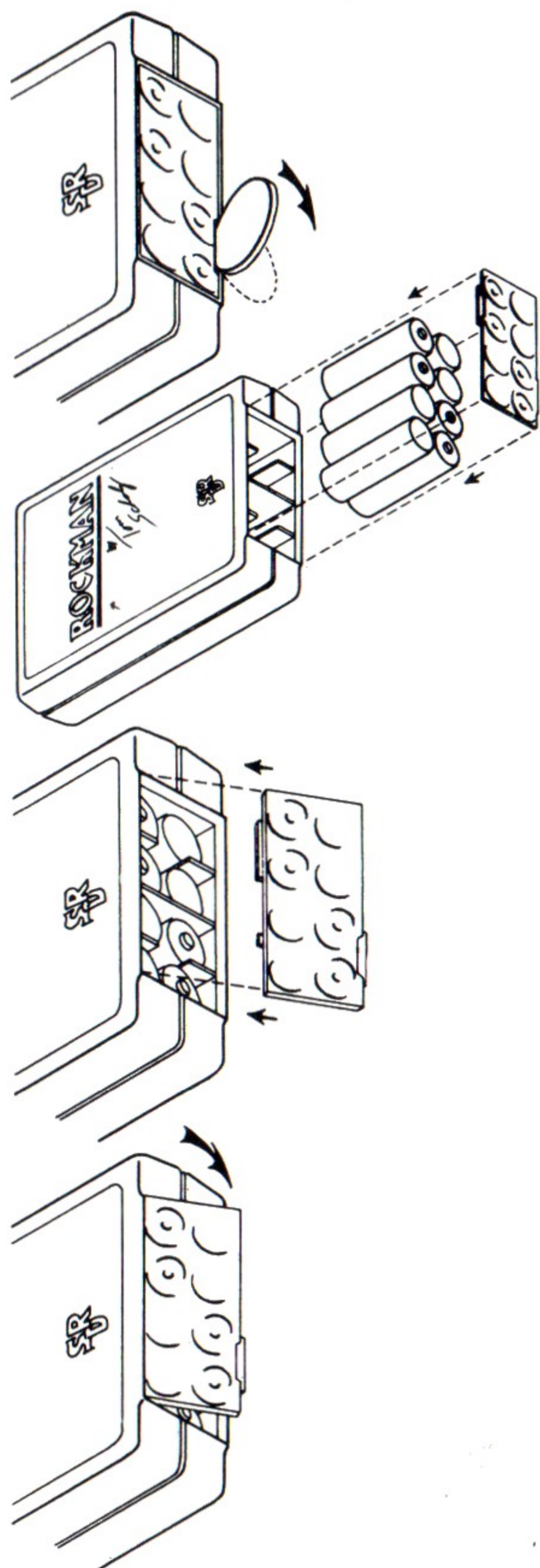
ROCKMAN

U L T R A L I G H T

OPERATING MANUAL



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.

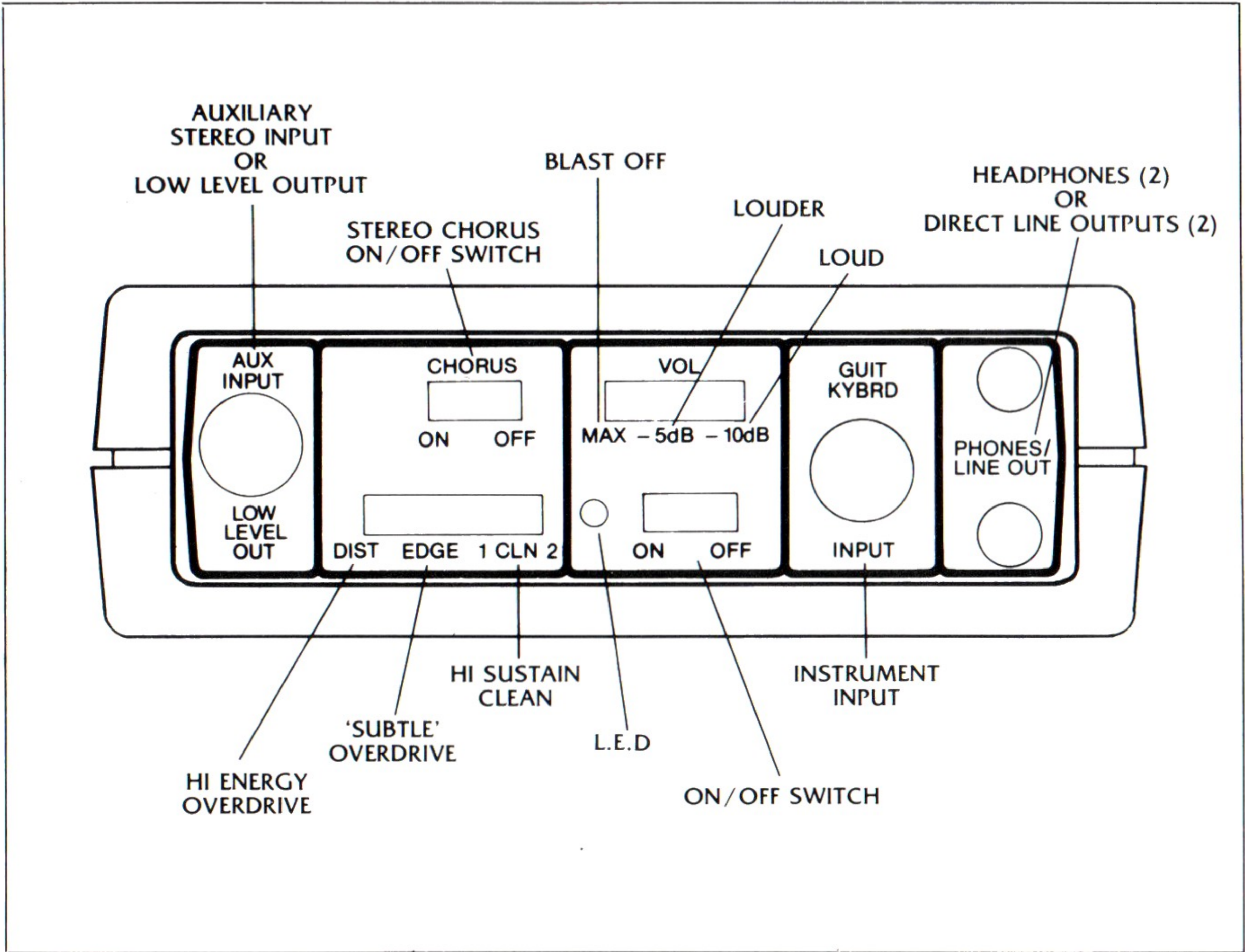
6.

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.

Note: weak batteries or batteries inserted incorrectly will cause distortion in CLEAN settings and may stop the CHORUS from working and may cause the signal to be lost in one side of the headphones.

CONTROL PANEL



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- INSTRUMENT INPUT . . .** Accepts electric guitar, keyboards, high impedance microphones, or high impedance pickups.
- AUX INPUT /
LOW LEVEL OUTPUT . . .** 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.) This jack may also be used as an output to drive guitar amps and other low level devices.
- PHONES / LINE OUT** 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 of maximum may be hazardous to your hearing.)
- CHORUS** 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.
- DISTORTION** Hi energy overdrive and sustain with multiple stages of pre-set EQ and filtering.
- EDGE** Produces a subtle distortion when playing hard and a cleaner sound when playing soft. The treble response is automatically turned up when softer guitar notes are played or when guitar volume is turned down.
- 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.
-

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 adjusts for the differences in instrument output levels and enables the musician to increase or decrease the sustain and compression.

The GAIN knob controls the level in the preamp section of the **ROCKMAN** and primarily affects the CLN 1, CLN 2, and EDGE settings.

Rotate clockwise to increase sustain and compression. Rotate counterclockwise to reduce sustain and compression. Reducing GAIN causes the highs to be automatically boosted.

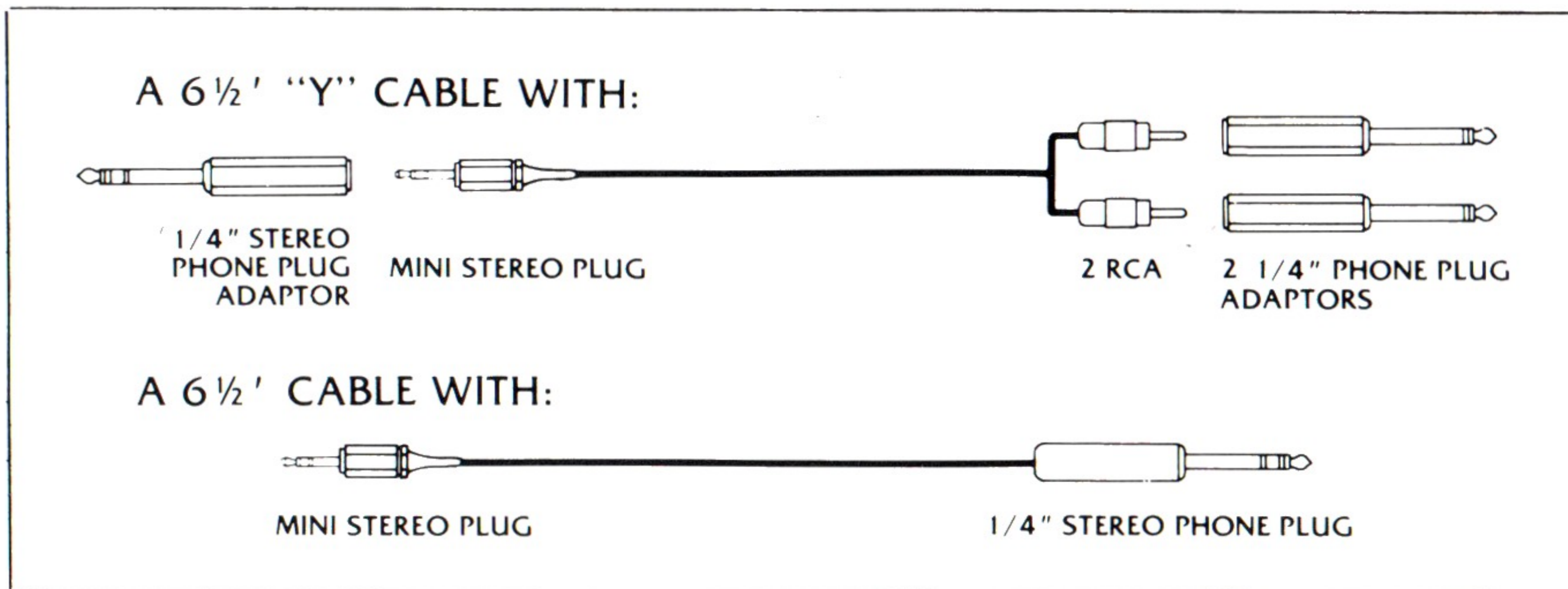
NOTE: Adjustments may be made with a small screwdriver or by hand. A hum may be noticed and is normal.

- 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 CLN 2 or EDGE 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 clippings in this mode at high GAIN settings.
- EDGE** The GAIN knob acts as a distortion level control in EDGE. The higher the GAIN, the more distortion and sustain.
- DIST** The GAIN control has only a small effect on sustain in this mode. The control may therefore be set for tastes in the CLN 1, CLN 2 and EDGE settings without substantially changing response in the DIST mode.

NOTE: A hum may be noticed while the GAIN knob is being adjusted. This is normal.

INTERCONNECTIONS

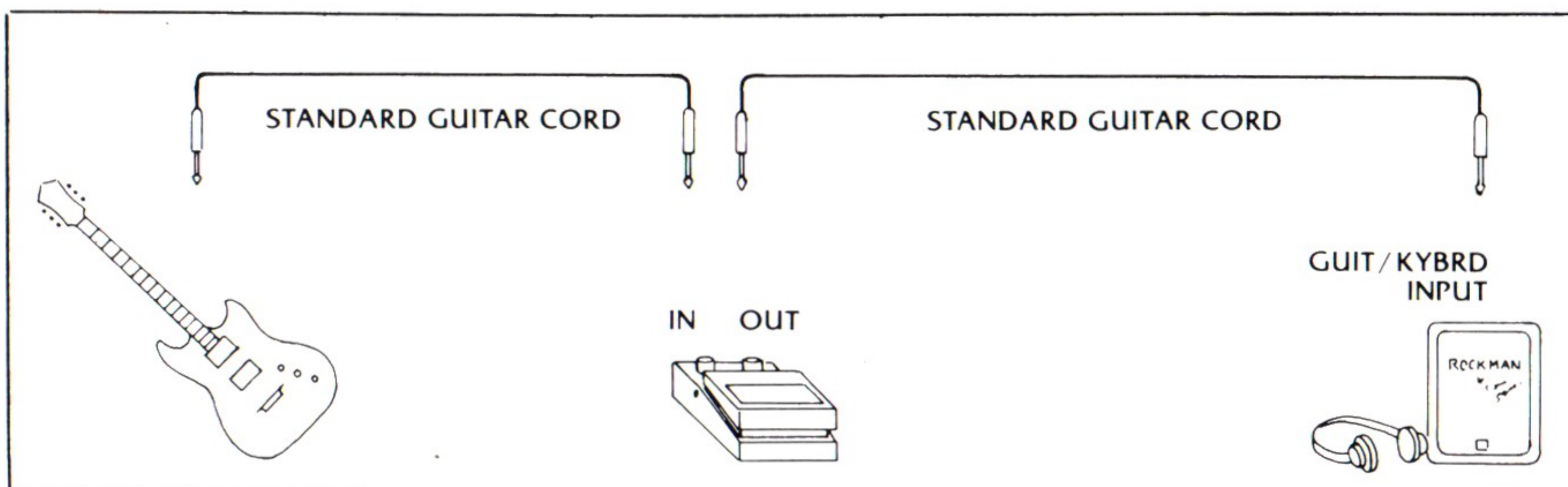
CABLE KIT (MUST BE PURCHASED SEPARATELY.)



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.

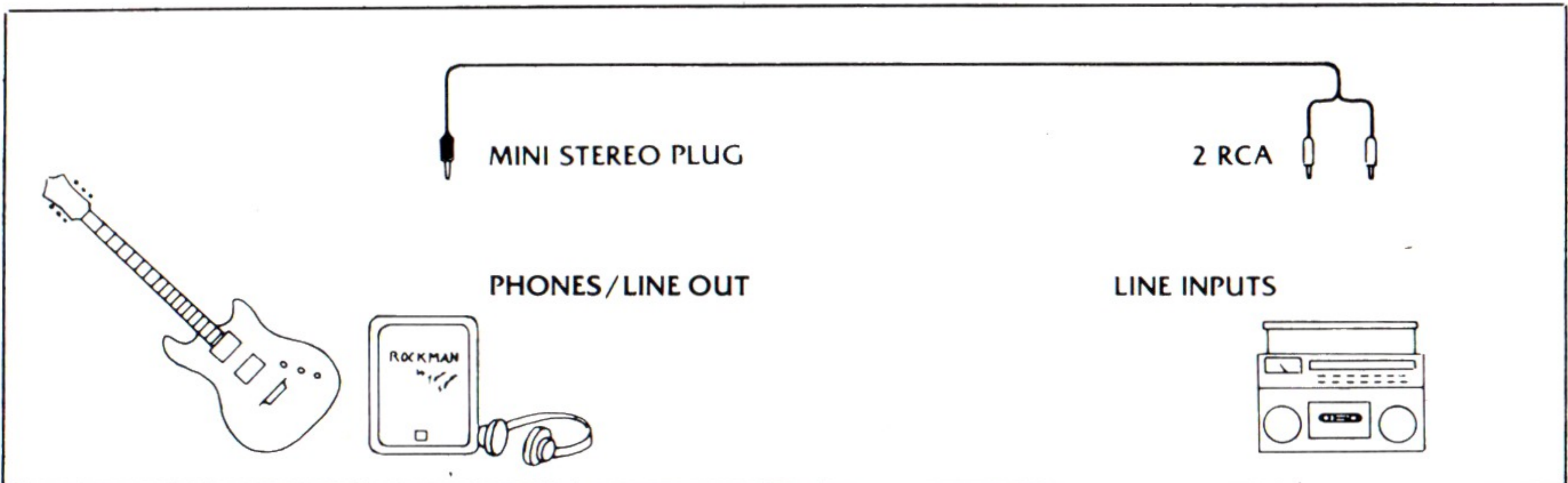
Do not connect the left and right outputs together with a "Y" cord or feedback will occur. If necessary, one RCA may be used separately.

To Use Accessories with the Rockman

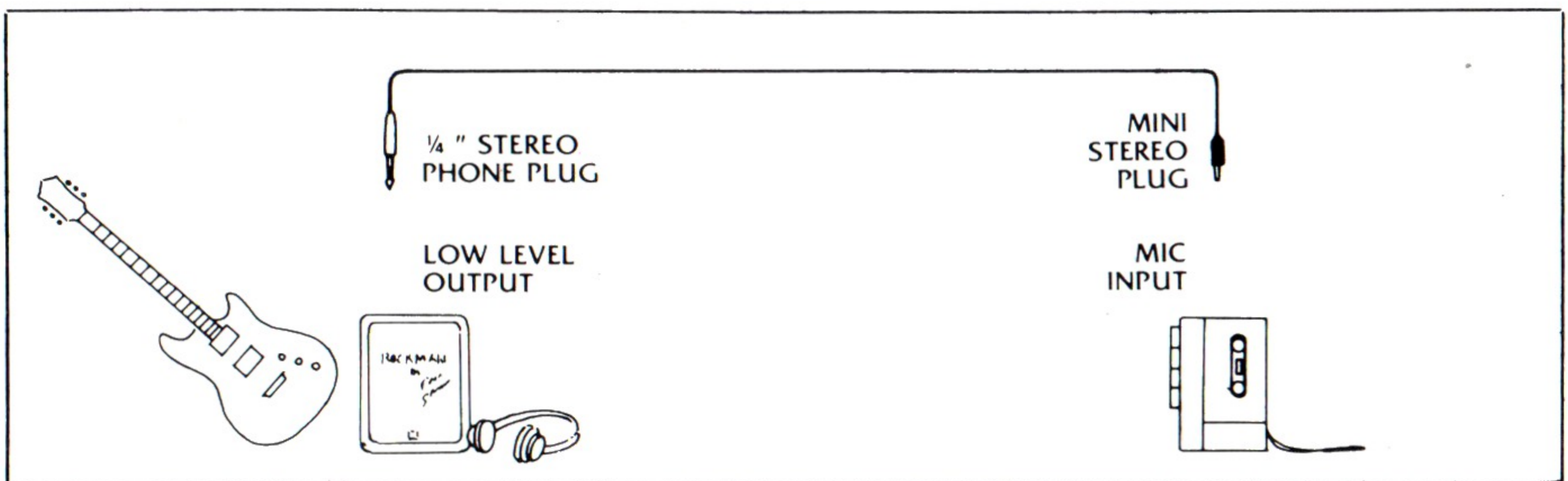


To Record with the Rockman

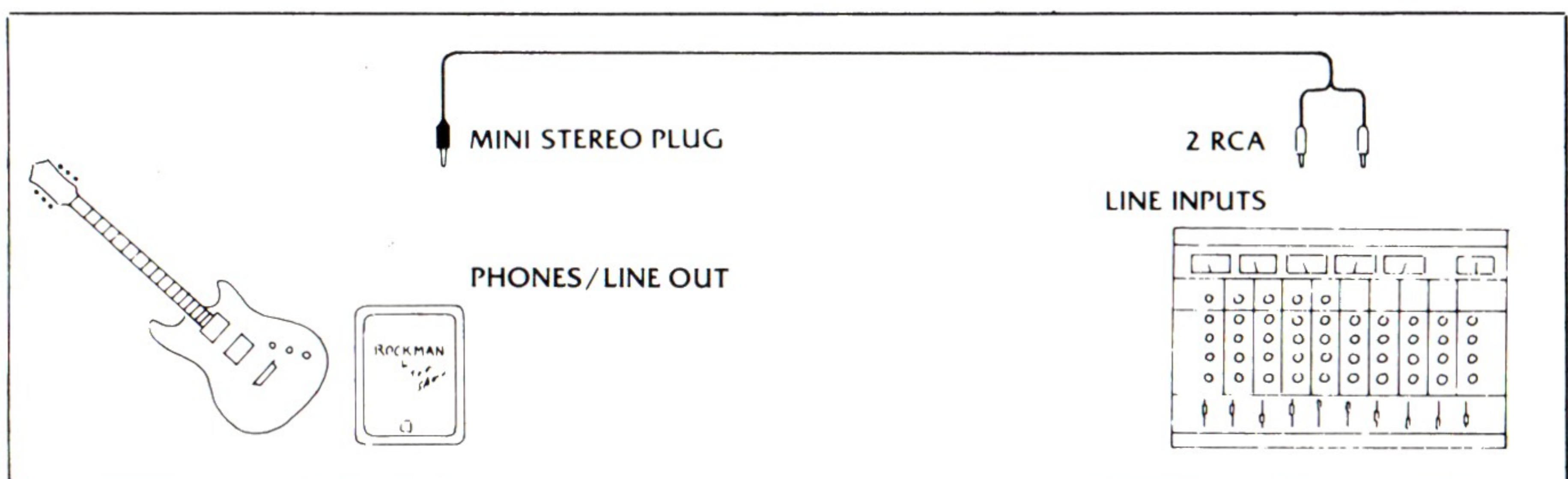
1. INTO A CASSETTE TAPE PLAYER



2. INTO A PORTABLE CASSETTE/RADIO



3. THROUGH A MIXING BOARD

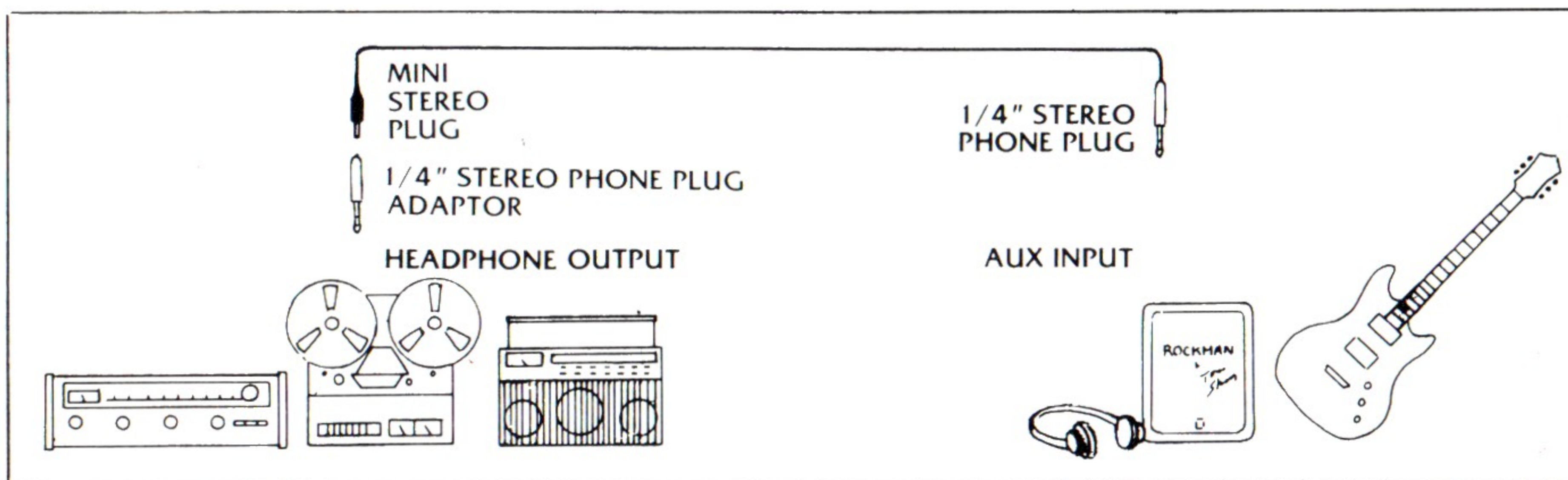
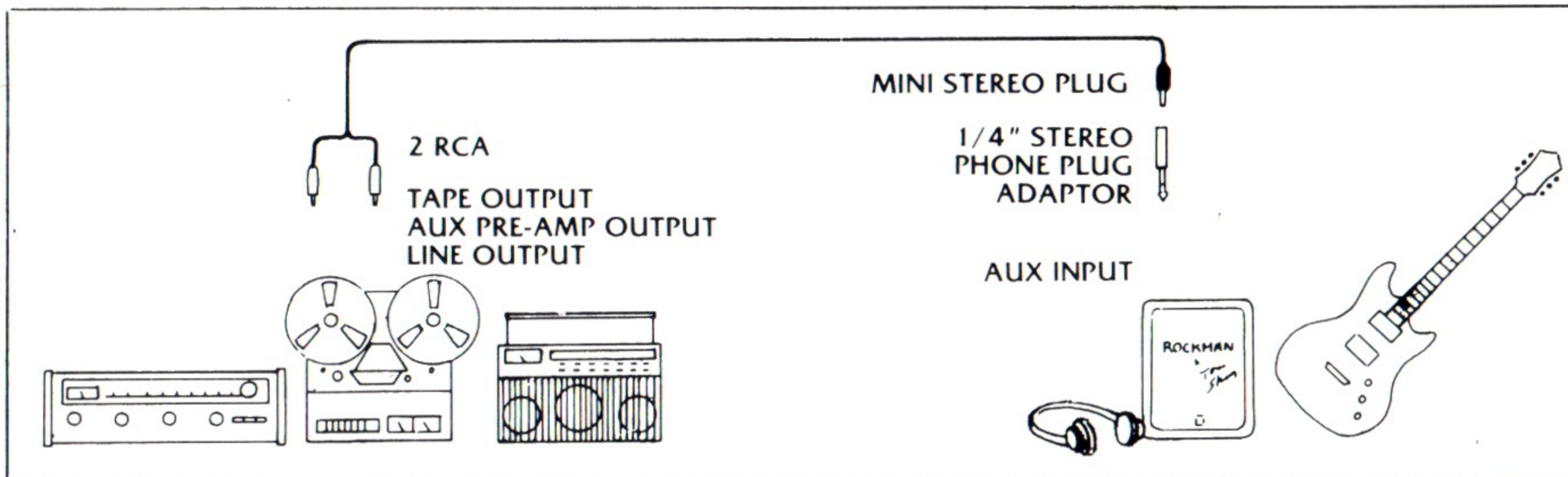


1) Use two separate channels; 2) Plug into line inputs; 3) For stereo (recommended), pan channels full left and full right; 4) **ROCKMAN** volume should be switched to maximum.

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.

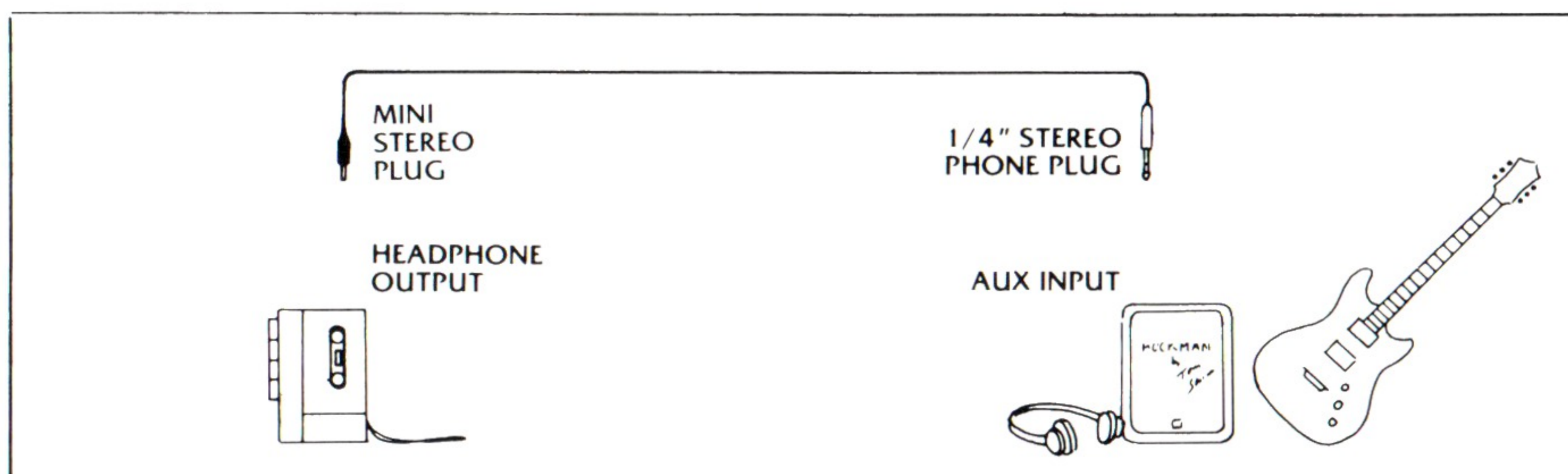
To Play Along with Records, Tapes, Radio

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.

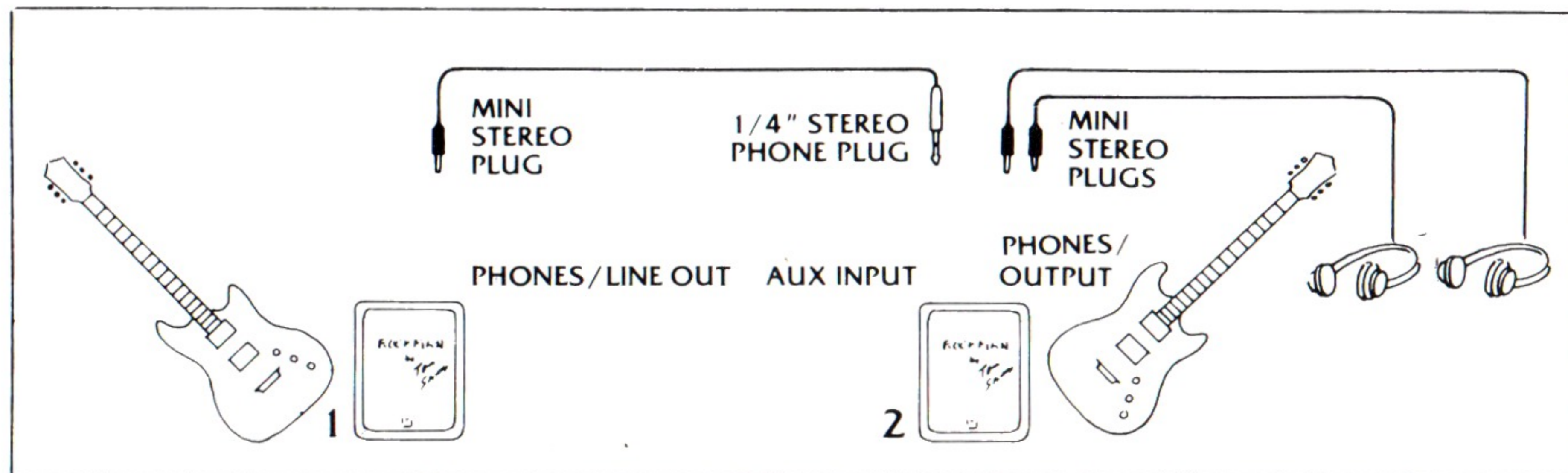
2. USING A PORTABLE CASSETTE/RADIO



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.

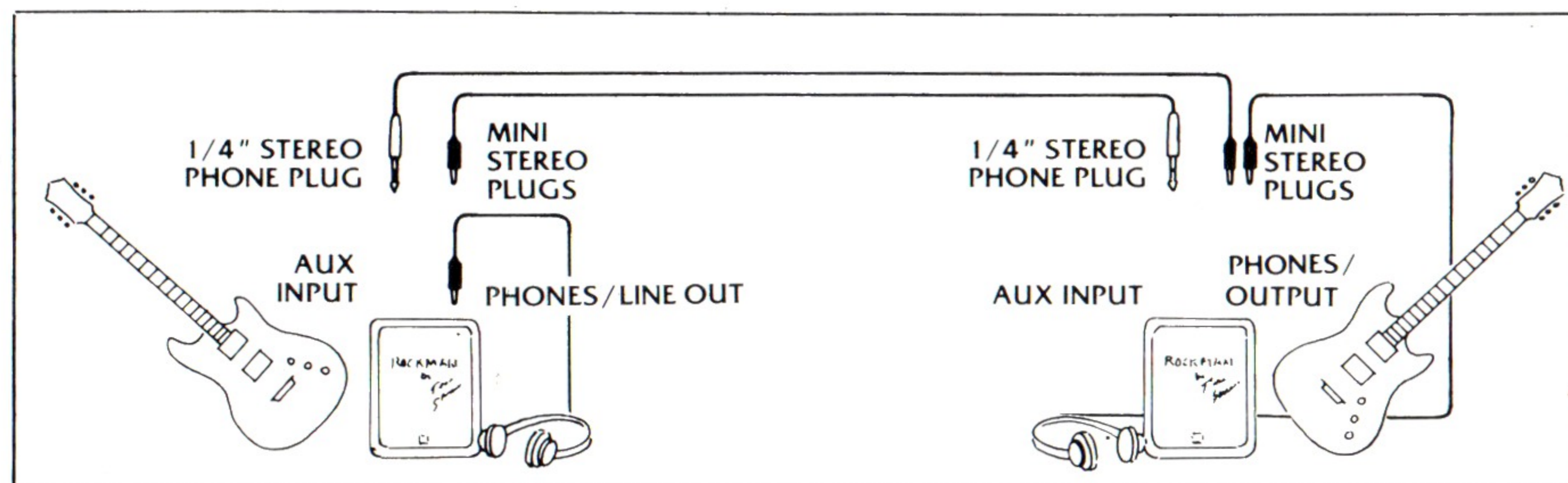
To Play Along with Another Musician

1.



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

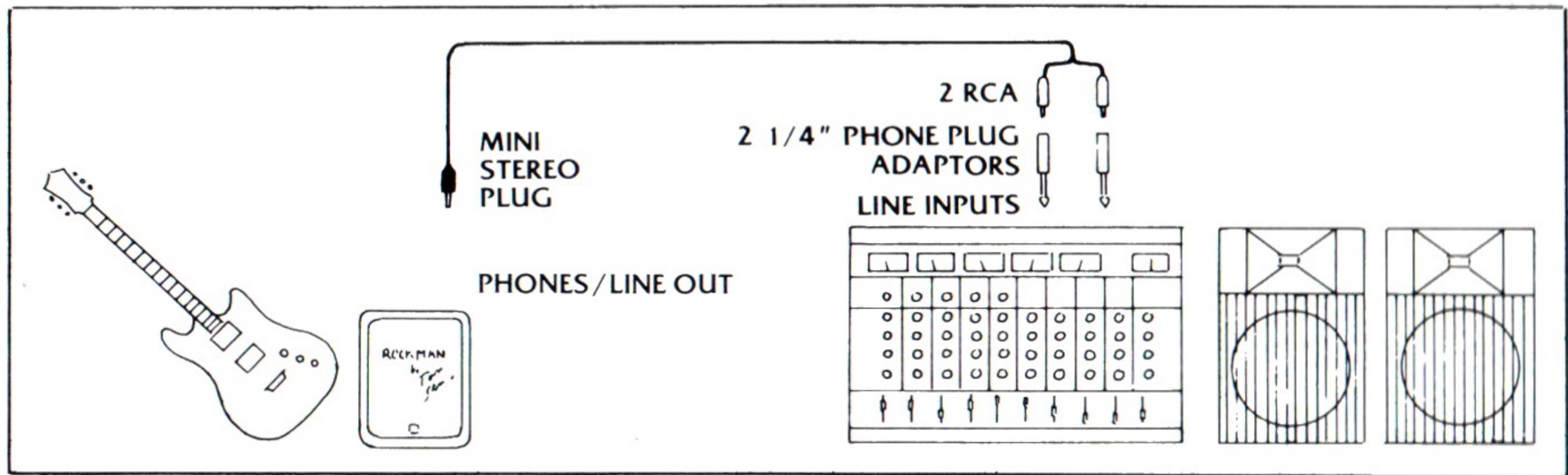
2.



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

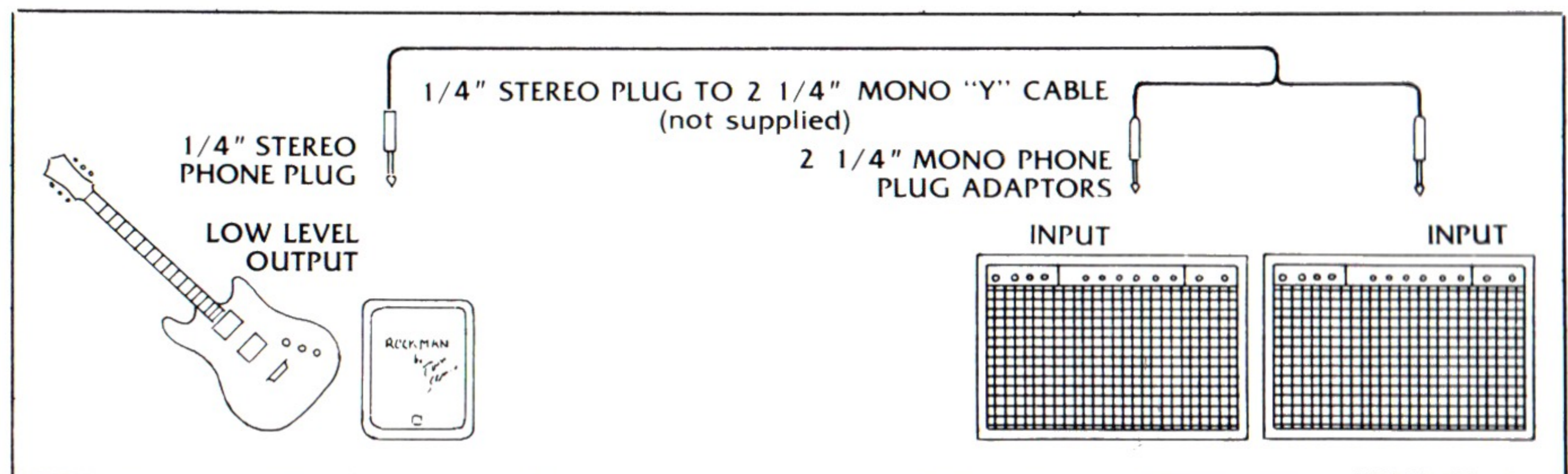


1) Use two separate channels; 2) Plug into line inputs; 3) For stereo (recommended), pan channels full left and full right; 4) **ROCKMAN** volume should be switched to maximum.

2. THROUGH A MUSICAL INSTRUMENT AMPLIFIER

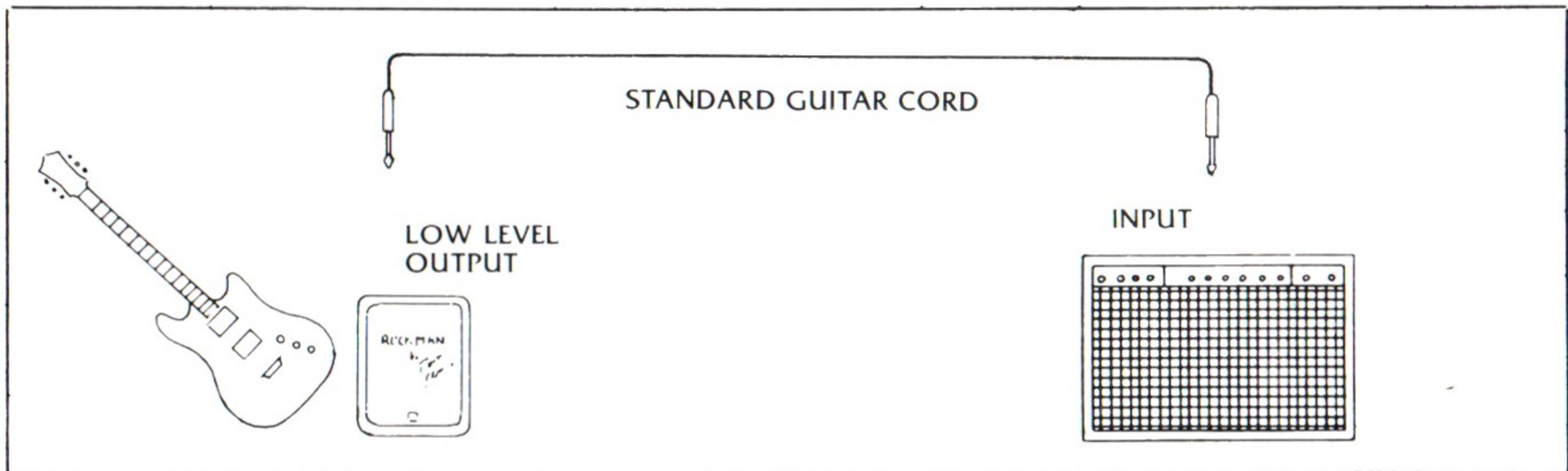
The **ROCKMAN** sound quality is compromised by playing directly through your amplifier but by adjusting your EQ setting, you can get acceptable results.

STEREO



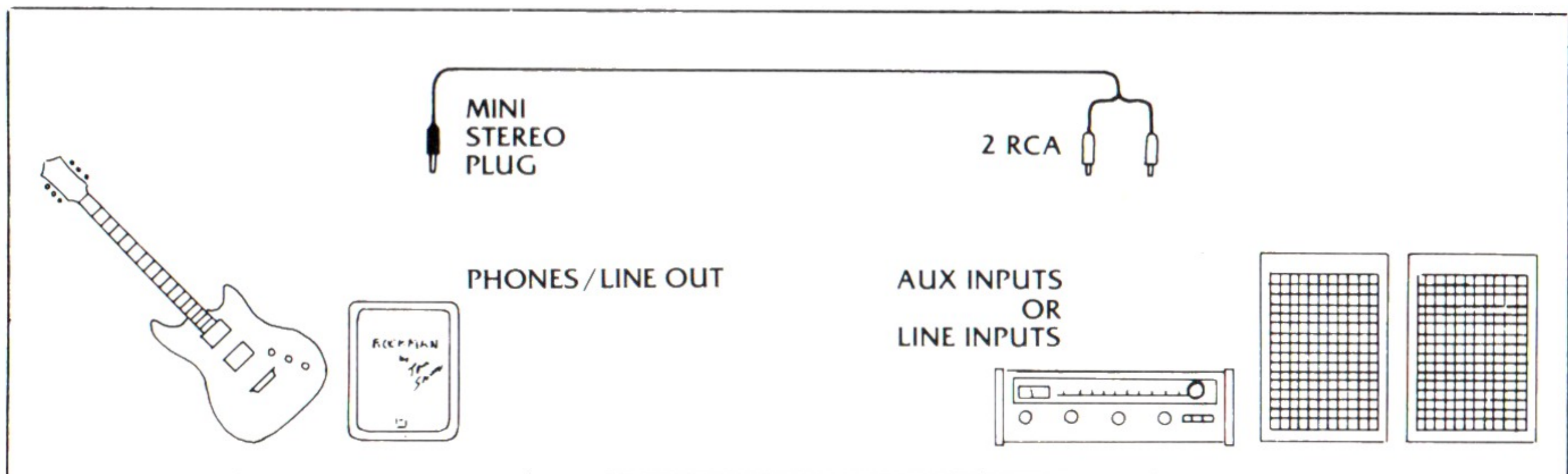
NOTE: Amplifiers need not be identical, but care must be taken to adjust the tone controls for acceptable sound on each amp separately by turning on one amp at a time until the sounds are balanced.

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 45 HOURS WITH ALKALINES

Dimensions

6.2"L x 4.2"W x 1.4"H

Weight

15 oz

Warranty

ROCKMAN: TWO (2) YEARS, PARTS AND LABOR
HEADPHONES: ONE (1) YEAR, PARTS AND LABOR

WARRANTY REPAIRS

CALL (617) 894-9875 FOR RETURN AUTHORIZATION.
SEND TO: WARRANTY REPAIRS, SCHOLZ RESEARCH &
DEVELOPMENT, 130 ALEWIFE BROOK PARKWAY,
CAMBRIDGE, MA 02140

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTIFICATION.

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 / P.O. Box 191, Lincoln, MA 01773 / (617) 894-9875.



Scholz Research & Development, P.O. Box 191, Lincoln Center, MA 01773