

ROCKTRON

TECHNOLOGY FOR GUITARISTS



PEDAL TUNER FOR GUITAR & BASS



- CHROMATIC PEDAL TUNER FOR GUITAR AND BASS
- MULTI-LEDS AND LIGHTED NOTES MAKE IT EASY TO TUNE ON DARK STAGES
- CALIBRATION SWITCH
- MUTE OUT FOR SILENT TUNING
- CONTINUOUS OUT FOR LIVE TUNING
- EASY ACCESS BATTERY COMPARTMENT

INSTRUCTION MANUAL

MAY BE COVERED BY ONE OR MORE OF THE FOLLOWING: U.S. PATENTS
#4538297, 4647876, 4696044, 4745309, 4881047, 4893099, 5124657, 5263091,
5268527, 5319713, 5333201, 5402498 AND 5493617.
OTHER PATENTS PENDING. FOREIGN PATENTS PENDING.



Your X-Tune™ pedal has been tested and complies with the following Standards and Directives as set forth by the European Union:

Council Directive(s): 89/336/EEC Electromagnetic Compatibility

Standard(s): EN55013, EN50082-1

This means that this product has been designed to meet stringent guidelines on how much RF energy it can emit, and that it should be immune from other sources of interference when properly used. Improper use of this equipment could result in increased RF emissions, which may or may not interfere with other electronic products.

To insure against this possibility, always use good shielded cables for all audio input and output connections. This will help insure compliance with the Directive(s).

For more information about other Rocktron products, please see your local dealer or one of our importers closest to you (listed on the Rocktron website - www.rocktron.com).

Precautions

Read all instructions contained in this manual.

Keep these instructions

Heed all warnings

Follow all instructions.

Do not use this apparatus near water.

Clean with dry cloth

Precautions Continued....

Do not block any ventilation openings (if applicable). Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.

This product is not equipped with a plug or cable. This pedal runs on a 9 Volt Battery, if a 9Volt DC adapter is the used please follow adapter manufacturer's operation instructions.

Only used attachments/accessories specified by the manufacturer.

Do not use this product with any case, stand tripod, bracket or table that is not specified by the manufacturer. Insure that the case, stand, tripod, bracket etc. is properly adjusted and setup (follow all instructions). Extra care and caution should be taken to avoid tip over and injury.

Unplug this apparatus during lightening storms or when unused during long periods of time.

Refer all service to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply or plug is damaged, liquid has been spilled or objects have fallen into the apparatus or if the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

DO NOT ATTEMPT TO SERVICE THIS EQUIPMENT. QUALIFIED PERSONNEL SHOULD SERVICE THIS EQUIPMENT ONLY. DO NOT MAKE ANY INTERNAL ADJUSTMENTS OR ADDITIONS TO THIS EQUIPMENT AT ANY TIME OR TAMPER WITH INTERNAL ELECTRONIC COMPONENTS AT ANY TIME. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID THE WARRANTY OF THIS EQUIPMENT AS WELL AS CAUSING A SHOCK HAZARD.

OPERATING TEMPERATURE

Do not expose this unit to excessive heat. This unit is designed to operate between 32 F and 104 F (0 C and 40 C). This unit may not function properly under extreme temperatures.

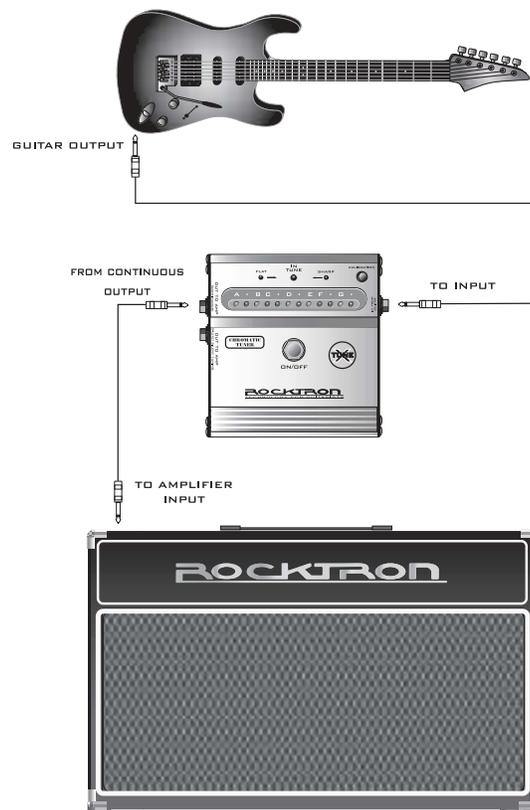
Introduction

Congratulations on your purchase of the Rocktron X-Tune.

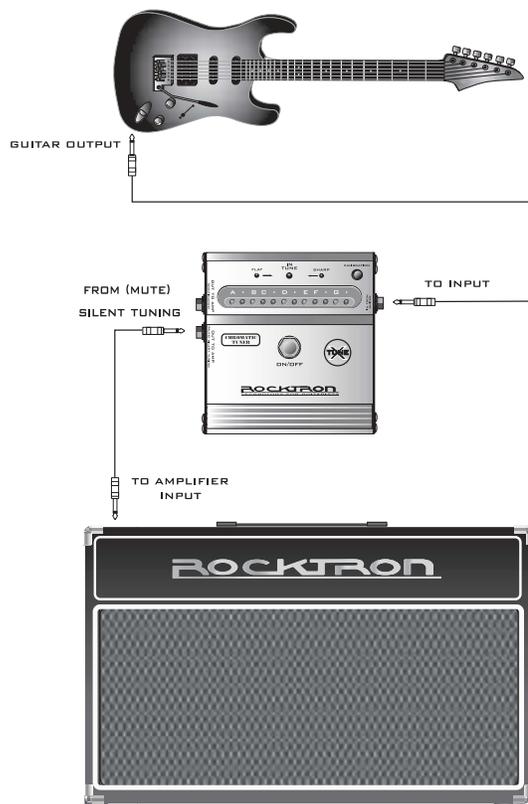
The X-Tune provides easy tuning in a cool pedal format. A chromatic pedal tuner for guitar and bass, the X-Tune offers multi-LEDs and lighted notes that make it easy to tune on dark stages. Built in Rocktron's strong aluminum chassis, the X-Tune allows muting for silent tuning, and continuous out for live tuning. The X-Tune handles 12 Note tuning and a 7 octave range. A calibration switch is provided. Like most Rocktron pedals, the X-Tune features an easy access battery compartment. Add this tuner to your stomp box setup and stay in the pedal world

Enjoy

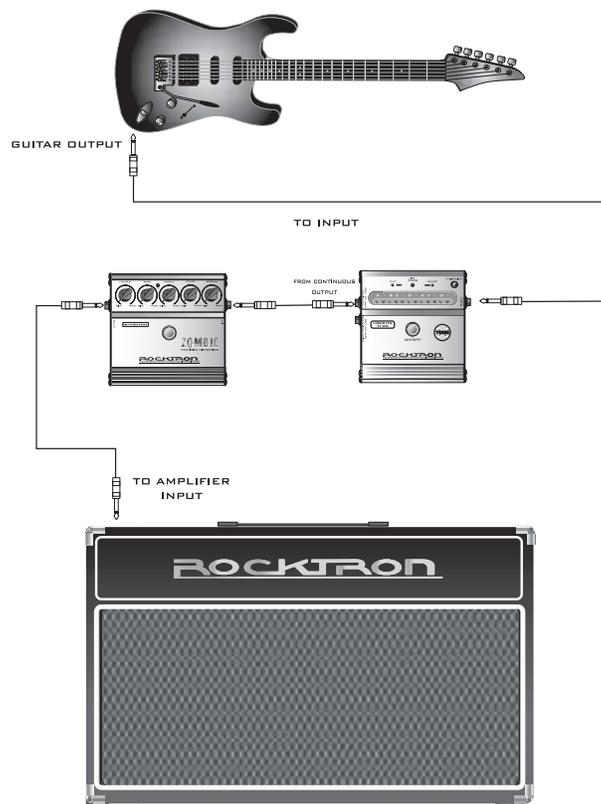
Connection 1- Continuous Tuning



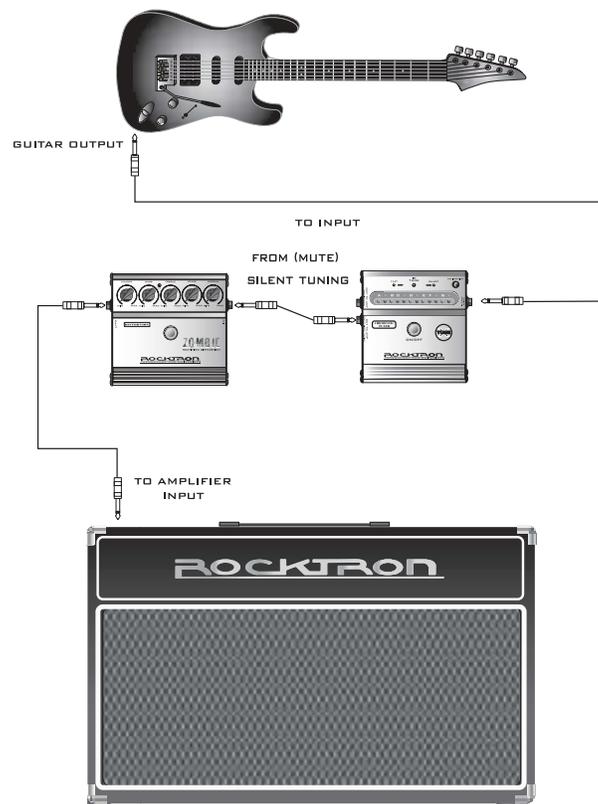
Connection 2 - MUTE Silent Tuning



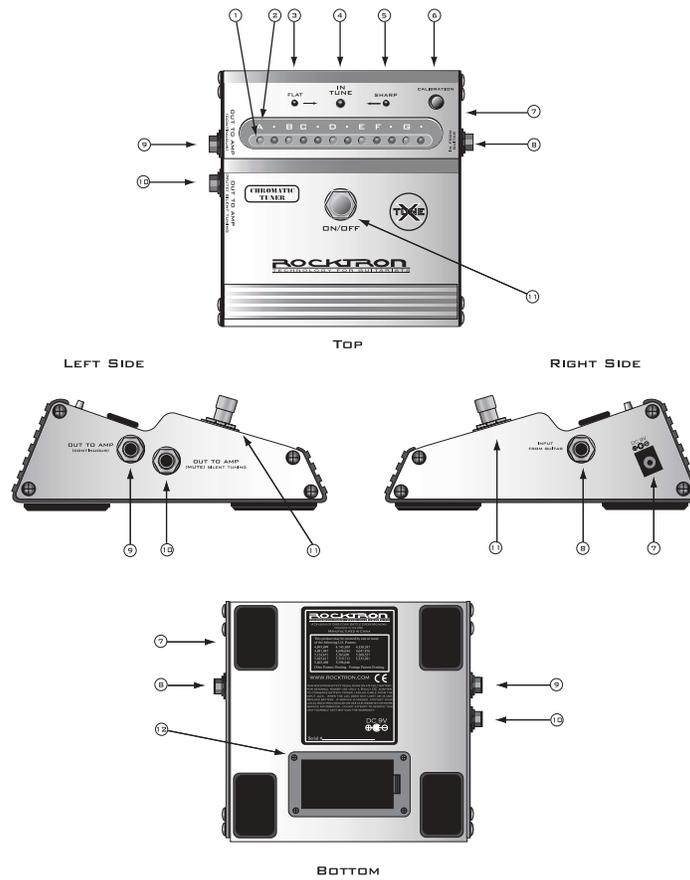
Connection 3- Continuous Tuning with another stomp box



Connection 4 - MUTE Silent Tuning with another stomp box.



Descriptions



Descriptions

- 1 Note Indicator LEDs -These LEDs show the note being tuned. The note indicated above the LED (see point 2) is actual note being tuned.
- 2 Notes - This row of notes will light up when the unit is turned on. The LED under the note being tuned will light up.
- 3 Flat Indicator LED - this flashing LED will light if the note being played is flat. The more "flat" the note is, the faster the LED will flash.
- 4 In Tune LED - when the note being played is "in tune" this LED will light.
- 5 Sharp Indicator LED - this flashing LED will light if the note being played is sharp. The more "sharp" the note is, the faster the LED will flash.
- 6 Calibration Button - this button is used to calibrate the X-Tune to match the pitch of any instrument or audio source (like an old piano or tape player). For details on this function - see section titled "X-Tune Calibration."
- 7 DC 9V Input - To use external power (not provided) use only a 9-Volt DC adapter
- 8 Input - Using a standard guitar cable with a 1/4" jack, plug your guitar into this jack.
- 9 OUT TO AMP - Continuous Output Jack - If you would like to be able to hear the guitar note while tuning connect a standard guitar cable with a 1/4" jack connect to your next effect or directly into your amplifier.
- 10 OUT TO AMP - Mute Silent Tuning Jack - If you would like to be able to mute the output of your guitar going to your amplifier or next stomp box so that you can tune in silence - connect a standard guitar cable with a 1/4" jack connect to your next effect or directly into your amplifier.

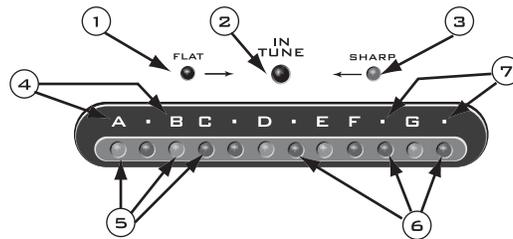
Descriptions *Continued*

- 11 On/Off Switch - This switch determines whether the pedal is “on” or “off” - When ON the blue LED will be lit. When OFF the LED will not be lit.
- 12 9-Volt Battery Compartment - to access pull on small tab labeled “OPEN”. Replace with a new 9-Volt battery. Always remember to unplug your guitar cords from the pedal to conserve battery life. Some battery drain may take place when unit is plugged in (even if the unit is bypassed).

X-Tune Calibration

To match the pitch of any instrument or audio source (like an old piano or tape player) press the “Calibration” button while simultaneously playing the note on the instrument. (Note: you might have to first tune one string on the guitar or bass by ear to match the actual note if the piano is out of standard tuning or if the tape player you are playing along with runs slower or faster than normal). Once you have one note on the guitar tuned to the source - simply play that note on the guitar - while the note is “ringing” press the Calibration button. The tuning pitch of the tuner will automatically be shifted to match the pitch of the audio source. Release the button and tune the remaining strings as normal with the tuner. The tuner at this point has automatically adjusted the tuning range to match that pitch. To reset the tuner to standard 440Hz pitch turn off the tuner and then back on again with the footswitch (see controls - point 11).

LED Functions (detailed)



- 1 Flat Indicator LED - this flashing LED will light if the note being played is flat. The more "flat" the note is, the faster the LED will flash. Tune the string up until the LED stops flashing and the "IN TUNE" LED lights.
- 2 IN TUNE LED - when the note being played is "in tune" this LED will light.
- 3 Sharp Indicator LED - this flashing LED will light if the note being played is sharp. The more "sharp" the note is, the faster the LED will flash. Tune the string down until the LED stops flashing and the "IN TUNE" LED lights.
- 4 These letters indicate the notes in the standard tuning range for guitar. These notes will "light-up" when the X-Tune is turned on...this is ideal for tuning on dark or dimly lit stages.
- 5 These LEDs will light depending on the note being played. These LEDs are indicator lights for the notes A, B, C, D, E, F, and G
- 6 These LEDs will light depending on the note being played. These LEDs are indicator lights for Sharp notes or flat notes - A# or Bflat, C# or Dflat, D# or Eflat, F# or Gflat, or G#
- 7 These dots are the note indicators for A# or Bflat, C# or Dflat, D# or Eflat, F# or Gflat, or G#.

Tuning Instructions

Step 1 - plug the guitar/bass into the tuner - see “connections” section.

Step 2 - play a note on your guitar. In the example on the following page we are tuning the low E string on a guitar or bass. Pluck your E string, and if needed, adjust your tuning machine on your instrument until the LED under note “E” is lit (indicated as 1 in the preceding diagram).

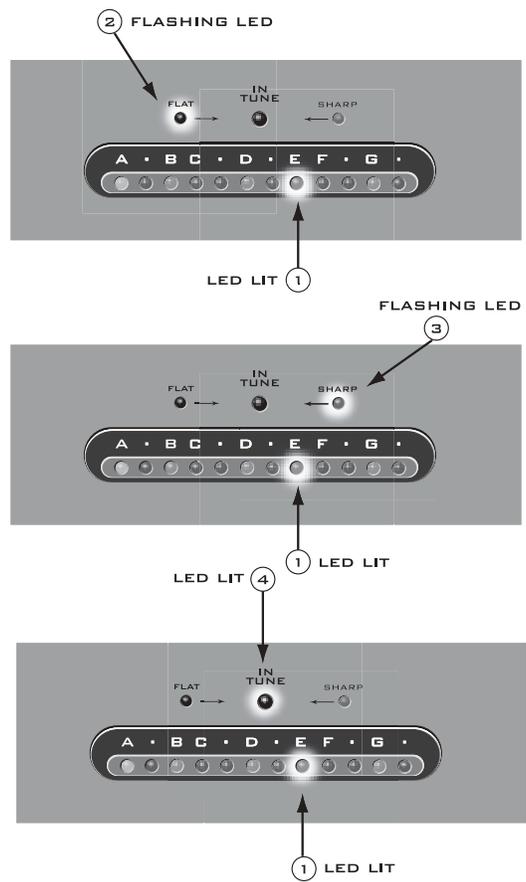
Step 3 - if your note is flat - the “FLAT” LED will light and flash. The speed of the flash will show you by “how much” your string is flat. If the Flat LED is flashing rapidly, tune your string up. During this process the LED will begin flashing slower. (Indicated as point 2 in the preceding diagram).

Step 4 - if your note is sharp - the “SHARP” LED will light and flash. The speed of the flash will show you by “how much” your string is sharp. If the Sharp LED is flashing rapidly, tune your string down. During this process the LED will begin flashing slower. (Indicated as point 3 in the preceding diagram).

Step 5 - Continue with step 3 or step 4 until the flat or sharp LED stops flashing and the blue “IN TUNE” LED lights. At this point the string is in tune.

Step 6 - Continue steps 2-5 but using your other strings on your guitar or bass.

Tuning Instructions Diagram



Specifications

Maximum Input	-5dBu
Input Impedance	470K
Current Consumption	30mA
Power Requirements	DC9V>100mA built-in regulator

** CE Approved **

Hints and Tips:

The X-Tune is sensitive - so it is not necessary to strike your string very hard - standard string attack will work. Additionally, if you are in a loud environment try using harmonics to tune your instrument. Lightly touch the string over the 12th fret of your instrument and pick the string with normal pick attack. This will create a harmonic. It will work on all strings.

The MUTE Silent Output Jack is ideal for tuning in live situations. This will allow you to tune without everyone in the audience hearing you tune. Additionally, this will mute the signal going to your amplifier which will help you keep down noise generated if you are using a high gain amplifier.

When using the X-Tune with the Continuous Output Jack, make sure you turn off your tuner once you are done tuning. Leaving the tuner on will run down the battery.

Rocktron Products

Preamps

Gainiac (*preamp w/12ax7 tube*)

Blue Thunder (*bass preamp w/multi-effects*)

Chameleon® 2000 (*preamp w/multi-effects*)

Voodoo Valve® (*preamp w/12ax7 tube and multi-effects*)

Prophecy (*our top of the line preamp with multi-effects*)

Rack Effect Processors

Xpression (*multi-effects processor*)

Noise Reduction

HUSH® Super C (*guitar noise silencing system*)

HUSH® The Pedal

Power Amplifier for guitar

Velocity® 100 (*2x50W Stereo Power Amp for Guitar*)

Rocktron Products

Distortion/Overdrive Pedals

Silver Dragon Tube Multi-Distortion Pedal

Metal Planet Distortion

Zombie Rectified Distortion

Rampage Distortion

Sonic Glory Overdrive

Austin Gold Overdrive

Nitro Tonal Enhancer/Booster

Effect Pedals

Hypnotic Flange

Tsunami Chorus

Vertigo Vibe Rotating Vibe Pedal

Short Timer Digital Delay

Big Crush Compressor

Pulse Tremolo

Nitro Tonal Enhancer/Booster

Heart Attack Dynamic Filter

Essential Pedals

HUSH® The Pedal

X-Tune Chromatic Tuner

Black Cat Moan Wah Wah

Banshee Talk Box

Rocktron Products

Tube Guitar Amplifiers

Vendetta Head (100 W Head 4-Channels All Tube - MIDI Switchable)

Vendetta Combo (100W 2x12 Combo Celestion 90s all Tube 4-Channel MIDI Switchable)

Rampage Guitar Amplifiers

R30RW (30W 1x10 Amp w/built in Digital Recorder)

R80DSP (80W 1x12 Amp w/Digital Effects)

RT80 (80W 1x12 Amp w/Reverb & Built-in Tuner)

R120DSP (120W 2x10 Amp w/Digital Effects)

RT122C (120W 2x12 Amp w/Stereo Chorus, Reverb & Chromatic Tuner)

R50DSP (50 Watt 2x8" Guitar Amp w/Digital Effects)

R50C (50 Watt 2x8" Guitar Amp w/Reverb & Chorus)

R20 (20 Watt 1x8" Amp w/Reverb)

R10 (10 Watt 1x6.5")

Rampage Acoustic Amplifiers

RA50DSP (50W Acoustic Amp w/Digital Effects - Wedge Shape)

RA30DSP (30W Acoustic Amp w/Digital Effects - Wedge Shape)

Rocktron Products

Rampage Bass Amplifiers

RB20 (*Bass Amp 20W with 8" Speaker*)

RB30 (*Bass Amp 30W with 10" Speaker*)

RB60 (*Bass Amp 60W with 12" Speaker*)

RB100 (*Bass Amp 100W with 15" Speaker*)

Foot Controllers and Accessories:

MIDI Mate (*Midi Foot Controller*)

MIDI XChange (*MIDI Foot Controller*)

All Access® (*Midi Foot Controller*)

HEX (*Expression Pedal*)

RMM900 (*7-pin Din MIDI Cable*)

RM4 (*MIDI Controller for Vendetta amps*)

RFS1 and RFS2 (*Single and Double Latching Footswitches for Rampage Amps*)

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