

tc electronic®



PolyTune™

USER'S MANUAL

Important Safety Instructions

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Only use attachments/accessories specified by the manufacturer.
- 10 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Warning!

- To reduce the risk of fire or electrical shock, do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
- Do not install in a confined space.

Service

- All service must be performed by qualified personnel.

Caution:

You are cautioned that any change or modifications not expressly approved in this manual could void your authority to operate this equipment.

When replacing the battery follow the instructions on battery handling in this manual carefully.

EMC/EMI

This equipment has been tested and found to comply with the limits for a Class B Digital device, pursuant to part 15 of the FCC rules.

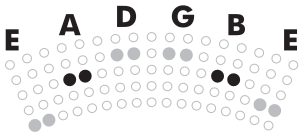
These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and – if not installed and used in accordance with the instructions – may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception – which can be determined by turning the equipment off and on –, the user is encouraged to try correcting the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from the one to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

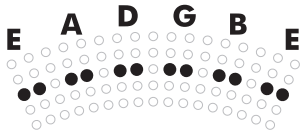
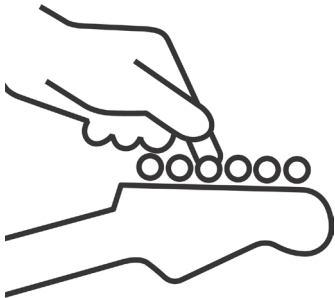
For the customers in Canada:

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

1



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(EN) Introduction

The electric guitar revolutionized the world of guitars. Now PolyTune™ revolutionizes the world of tuners...

Congratulations – you are holding our revolutionary new PolyTune™ guitar and bass tuner. You'll never tune the same way again...

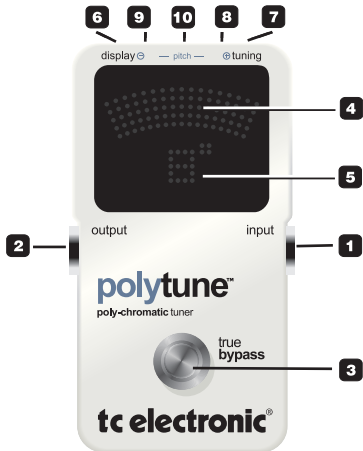
PolyTune™ is the greatest innovation in tuners ever. Period!

Strum all strings at the same time and PolyTune™ clearly and accurately tells you which strings are in tune and which ones are not. No need to check strings individually – just strum, tune and rock!

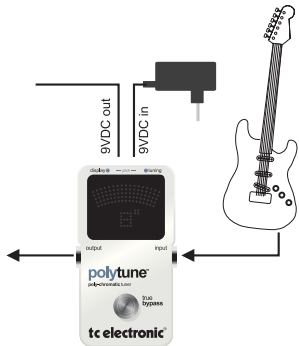
Drop D Tuning - yes of course we can. And switching between regular PolyTune mode and Drop D is dead simple.

Will it PolyTune when using a capo? Yes of course. Just select capo mode and you are all set to go whether you use PolyTune mode, Chromatic mode or Drop D tuning mode.

Whether you prefer to tune your instrument polyphonically or chromatically, it is no problem, you decide. patented 'MonoPoly' algorithm detects which way you are tuning and switches modes automatically. At a stroke PolyTune™ has revolutionized the way guitarists and bass players tune their instruments. Could we have made tuning any simpler or quicker than this?




- 1 - 1/4 inch mono jack input
- 2 - 1/4 inch mono jack output (true bypass)
- 3 - Tuner on/off (true bypass) + Drop D access
- 4 - Tuner display, - Chromatic + Polymode
- 5 - Note indicator
- 6 - Needle/Stream toggle
- 7 - Drop Tuning & Capo mode access
- 8 - Power in (9VDC)
- 9 - Power out to other pedals
- 10 - Service port



Connecting

Input jack - connect your instrument here using a 1/4 inch mono jack cable. If you run on battery we recommend removing this jack to preserve battery power when you don't play.

Output jack - connect to another pedal or directly into an amp or mixer. When the tuner is active the output will be muted for silent tuning. Notice that PolyTune™ is designed with a true bypass circuit that leaves your beloved tone unaltered when the tuner is bypassed.

Power in - use a 9 VDC power supply with the following symbol: 

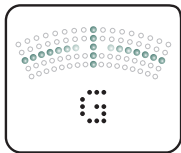
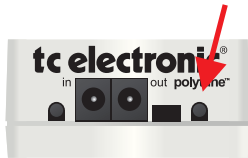
Power out - If you use an external power supply you may use PolyTune's™ power out to daisy-chain power to other pedals.



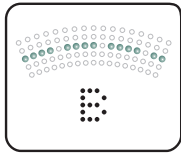
- Do NOT connect an external power supply to POWER OUT. This could cause malfunction or damage to PolyTune™. Current draw on daisy-chained pedals may not exceed 2A.
- Be sure that your power supply delivers sufficient power to cover the power consumption of all pedals.
- Place PolyTune™ before drive and distortion pedals for best tuner indication.

Tuning and Display modes

PolyTune™ features both Polyphonic and Chromatic tuning modes. Toggle through the following chromatic Needle/Stream display modes, as well as Guitar/Bass modes, by pressing the DISPLAY button several times: Needle (G), Stream (G), Needle (B) and Stream (B). “G” for guitar and “B” for Bass. Leave the button untouched for 2 seconds to return to tuning mode.



Needle mode - Guitar



Strobe mode - Bass

Chromatic mode

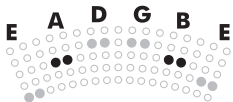
Standard chromatic tuning of one string at a time. The display indication can be set to either Needle or Stream mode.

Needle display mode - Tune your instrument according to the position of the “needle”. When the note is in tune the five green center LEDs plus left and right arrows are lit. (see above)

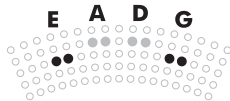
Stream display mode - The stream moves right (note too high) or left (note too low). Tune your instrument until the stream of LED groups is steady.

Poly mode

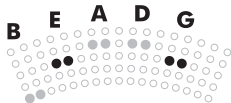
Yes, this is a polyphonic tuner. The amazing PolyTune™ allows you to get an overview of the pitch of all strings (guitar or 4/5/6 string bass) simultaneously. Simply strum all open strings firm and evenly, and you can see exactly which strings that need fine tuning. It is your choice whether you prefer to fine-tune strings in Chromatic or Poly mode.



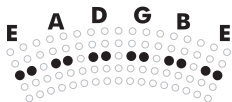
Guitar - out of tune



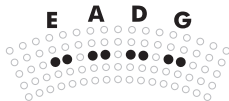
4 string bass - out of tune



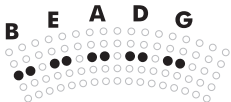
5 string bass - out of tune



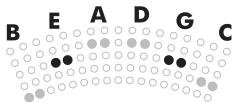
Guitar - In tune



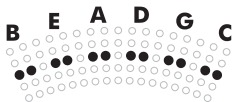
4 string bass - In tune



5 string bass - In tune



6 string bass - out of tune



6 string bass - In tune

Mode switching

Via TC Electronics “Monopoly” detection technology, PolyTune™ detects whether you are playing one or several strings, and automatically switches between Chromatic and Poly mode accordingly.



For the most accurate tuning of electric guitars in Poly mode, we have found that the best result is achieved by selecting the guitars neck pickup and using the thumb to strum the strings.

Dropped tuning & Capo mode

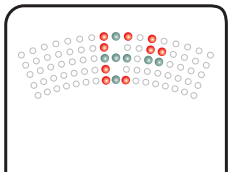
Polytune is easy to adjust to Dropped tunings and Capo modes. The range for Dropped mode is up to 5 semitones and Capo mode allows you to polytune with a capo in frets 1 to 7.



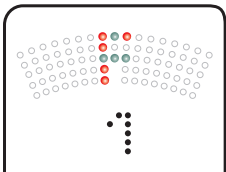
Press the TUNING button several times to switch between the modes.

Dropped modes: Eb, D, Db, C, B

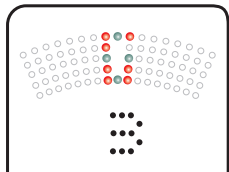
Capo modes: F 1, Gb 2, G 3, Ab 4, A 5, Bb 6, B 7



Example: Dropped mode "Eb"



Example: Capo mode "F1"
- capo in first fret



Example: Capo mode "G3"
- capo in third fret

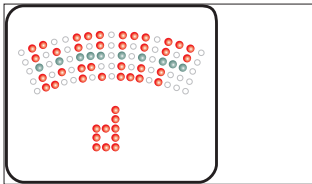
Leave the button untouched for two seconds and the tuner then returns to tuning mode.

YES - Dropped tuning and Capo modes can be combined with "Drop D" mode

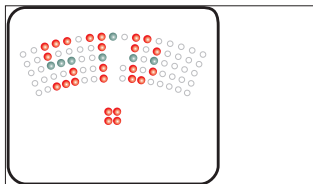
Drop D Tuning mode

This is the commonly used mode where you drop the low E-string to D. In this mode the strings the tune: D A D G B E. Switching between Drop D and Standard tuning mode is easy. Just press and hold the on/off switch for three seconds.

When entering Drop D mode the display briefly writes DROP D



When entering Standard mode the display briefly writes STD



Calibrate Pitch Reference

Default pitch reference is 440 Hz but you can calibrate from 435 to 445 Hz in one Hz steps. To change the pitch reference; press both buttons on the rear panel once and then use the two buttons individually to step up/down within the pitch reference. Enjoy the numeric indication in the display! - To return to tuner mode, leave the buttons untouched for 2 seconds.



Activate Calibration



Raise Pitch Reference



Lower Pitch Reference

Miscellaneous

Automatic dim of display - in the lower right side of the display an Ambilight sensor detects the strength of the surrounding light and automatically adjusts the display brightness accordingly. This way you will always have appropriate brightness on the display under all conditions and this feature even extends the battery life when max light is not necessary.

Indication of current settings - When inserting a jack cable to the input, the pedals status is displayed. Default settings are: Tuning: E, Pitch Reference: 440 Hz, Display mode: Needle.



PolyTune™ remembers the last used settings, even if the power has been disconnected or the battery has been removed.

Changing battery - Unscrew the thumb-screw on the back of the pedal and detach the backplate. Unmount the old battery and attach the new battery to the battery clip making sure the polarity is correct. Then remount the backplate. To save battery life; remove the input jack when you don't play.



Batteries must never be heated, taken apart or thrown into fire or water. Only rechargeable batteries can be recharged. Remove the battery when the pedal is unused for a longer period of time. Dispose batteries according to local laws and regulations.

Low battery indication - When the battery runs low on power the display occasionally indicates this by writing "BATT".

(EN) Technical Specifications

Tuning Range:	A0 (27.5Hz) - C8 (4186 Hz)
Tuning Accuracy:	+/- 0.5 cent
Reference Pitch:	A4 = 435 to 445Hz (1 Hz steps)
Input Impedance:	500 kOhm (pedal on)
Power Supply:	One 9V type battery or AC adapter (9V DC), - sold separately
Current Draw:	45-50 mA (typical use)
Dimensions (WxDxH):	72 mm x 122 mm x 45 mm
Weight:	300 g/10.6 oz (incl. battery)
Included items:	2 pcs. 3M velcro for pedal board attachment

Due to continuous development, these specifications are subject to change without notice

tc electronic[®]

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