



Tronical
COMPONENTS

TRONICALTUNE

PUSH. STRUM. TUNED. ROCK!

MANUAL

V 2.12

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TRONICAL TUNE - OVERVIEW

6 ROBOHEADS

WITH NEW SURFACE LOCKING MECHANISM

INTEGRATED LED-DISPLAY

(6 STRING LEDS, 1 MENU LED, 1 CHARGE LEVEL LED)

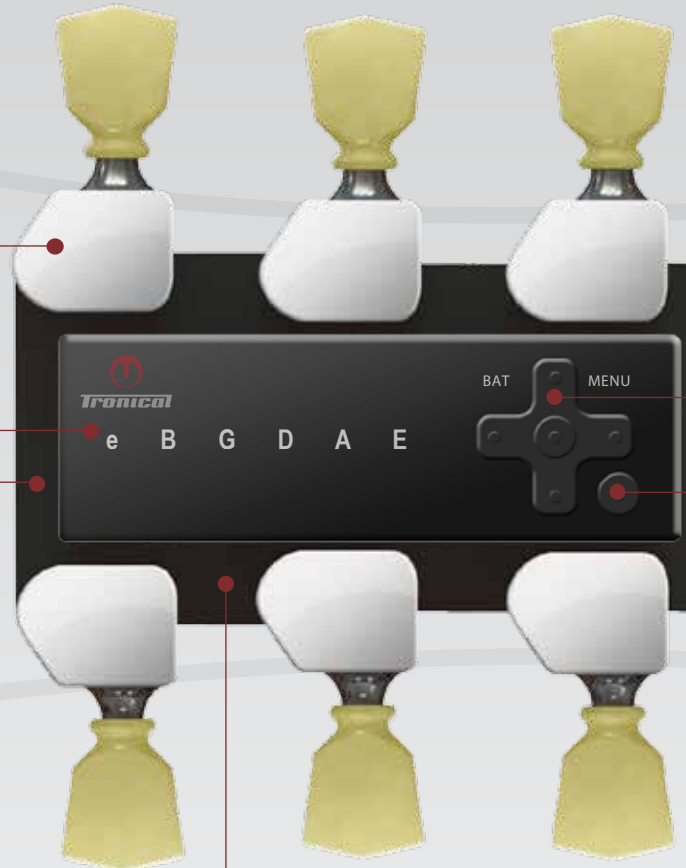
BATTERY

EXCHANGEABLE, RECHARGEABLE
3.7 VOLTS, LI-POLYMER, APPROX. 300 TUNINGS



BLACK TUNING CONTROLLER

BLACK MOUNTING BOARD WITH ROBOHEAD GUIDANCE



TUNE CONTROLLER

(UP, DOWN, LEFT, RIGHT, ENTER)

ON/OFF/BACK

AVAILABLE SPARE PARTS

- »»» Li-Po BATTERY
- »»» CHARGER WITH WALL-PLUG
- »»» ROBOHEADS
- »»» TUNING CONTROLLER WITH MOUNTING BOARD
- »»» WRENCH, LOCK NUTS & RING WASHERS

EXPLANATION - TUNE CONTROLLER



i PUSH AND HOLD THE "OFF-BUTTON" TO SWITCH OFF THE SYSTEM.

LED EXPLANATION DURING THE TUNING (e-E)

- : STRING IN TUNE
- : STRING NOT IN TUNE (PICK STRING)
- : FREQUENCY OUT OF PITCH WINDOW
- : RESPECTIVE ROBOHEAD IS IN MOVEMENT
- : FREQUENCY MEASUREMENT IN PROGRESS
- : INTERFERENCE BETWEEN LOWER AND HIGHER STRINGS

i MUTE LOWER STRINGS THAT ARE IN TUNE AND STRUM HIGHER STRINGS AGAIN.

LED EXPLANATION (BAT)

- : BATTERY FULLY CHARGED
- : BATTERY IS LOW
- : BATTERY IS EMPTY

LED EXPLANATION (MENU)

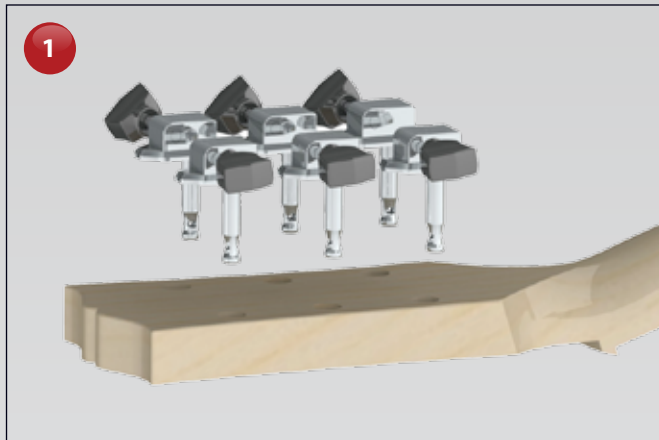
- : TUNING IS ACTIVE
- : CONFIGURATION MENU
- : FUNCTION MENU
- : SYSTEM CONFIGURATION

BLINKING MENU LED

- : ACOUSTIC GUITAR
- : ELECTRIC GUITAR

GETTING STARTED  **INSTALL THE SYSTEM TO THE GUITAR**

GETTING STARTED **»»»** INSTALL THE SYSTEM TO THE GUITAR



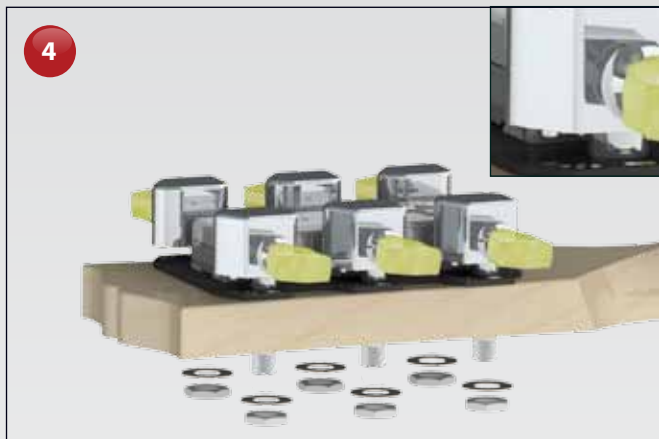
AT FIRST REMOVE ALL ORIGINAL HEADSTOCK-PARTS OF YOUR GUITAR.



TAKE THE ROBOHEADS OUT OFF THE CONTACTING PCB.



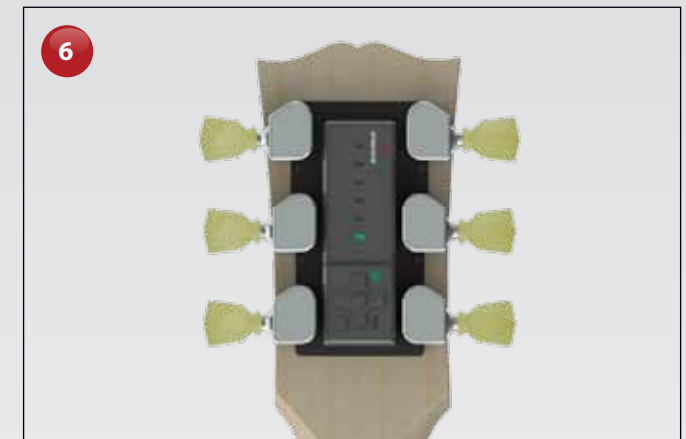
PLACE THE CONTACTING PCB ON THE NECK OF THE GUITAR, THE BATTERY COMPARTMENT HAS TO FACE TOWARDS THE TOP OF THE HEADSTOCK.



MAKE SURE THAT ALL PCB DRILL HOLES ARE IN ALIGNMENT WITH THE NECK'S TUNER HOLES. PUT THE ROBOHEADS THROUGH THE RESPECTIVE HOLES. MOUNT THE HEX-NUTS.



USE THE OPEN-END WRENCH WHICH COMES WITH THE SET TO SCREW TIGHT THE HEX NUTS OF THE ROBOHEADS.



NOW TRONICAL TUNE IS READY TO STRING UP YOUR GUITAR.

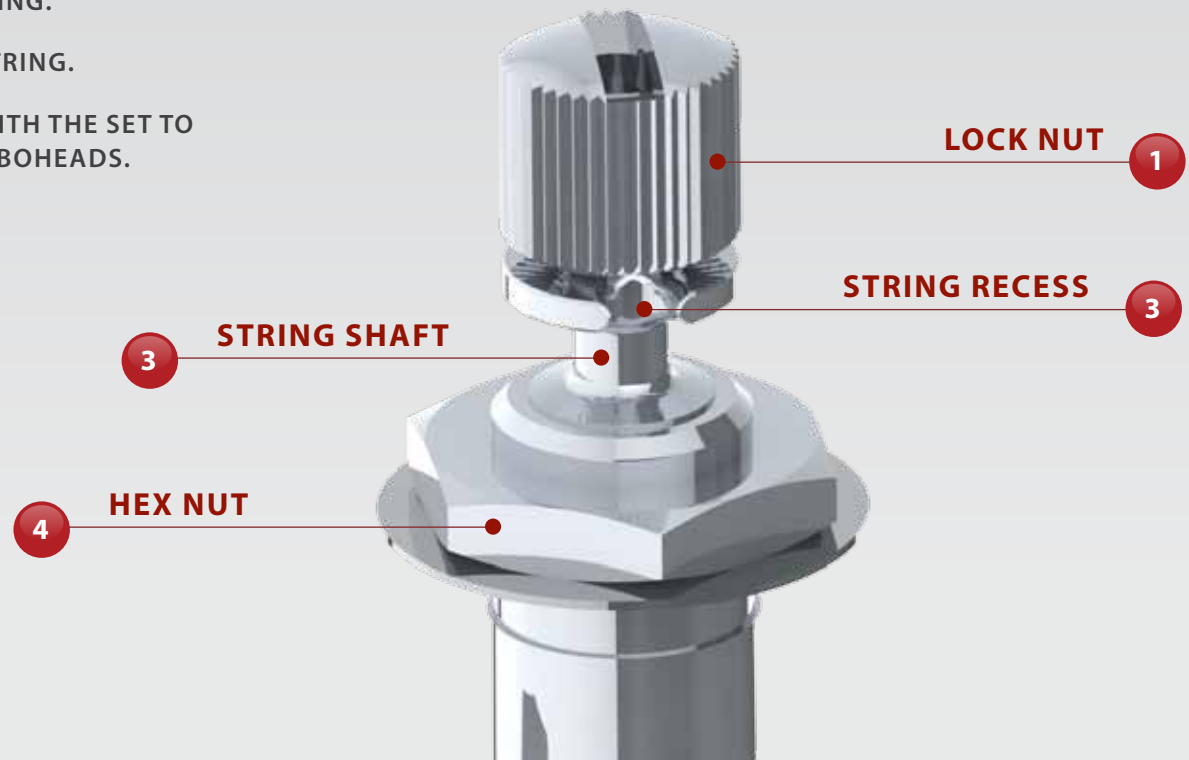
GETTING STARTED STRING YOUR GUITAR



MAX. RECOMENDED STRING GAUGES: .013 .017 .026 .035 .045 .056 (THIRTEEN TO FIFTY-SIXES)
NOTE: HIGHER STRING GAUGES MAY CAUSE DAMAGE TO THE TUNERS!

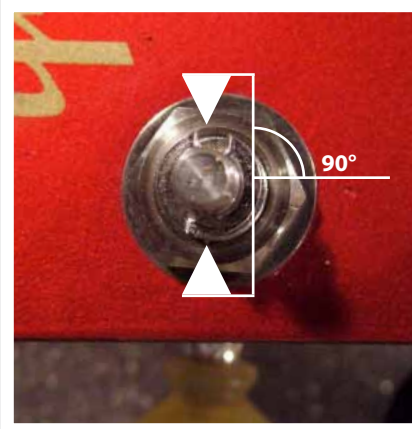
GETTING STARTED **»»»** HOW TO USE THE STRING SHAFT WITH SURFACE LOCKING MECHANISM

- 1 LOCK NUT:** YOU NEED THE LOCK NUT TO TIGHTEN THE STRING.
- 2 STRING SHAFT:** THE STRING SHAFT WINDS THE STRING.
- 3 STRING RECESS:** THE STRING RECESS GUIDES THE STRING.
- 4 HEX NUT:** USE THE WRENCH WHICH COMES WITH THE SET TO TIGHTEN THE HEX NUTS OF THE ROBOHEADS.



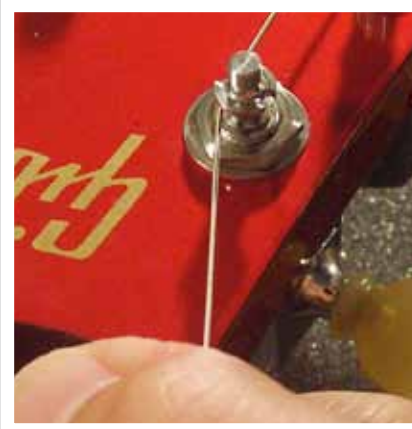
GETTING STARTED >>> HOW TO USE THE STRING SHAFT

1



SCREW OFF THE LOCK NUT AND MAKE SURE THAT THE RECESS IS AT AROUND 90 DEGREES TO LONG-ITUDINAL DIRECTION OF THE NECK. YOU CAN TURN MANUALLY ON THE KEY OR BY STRING UP MODE (PAGE 23)

2



PULL TIGHT ON THE STRING TO GET PRETENSION AND BEND IT ONE HALF TURN AROUND THE BOTTOM SIDE OF THE STRING SHAFT.



3

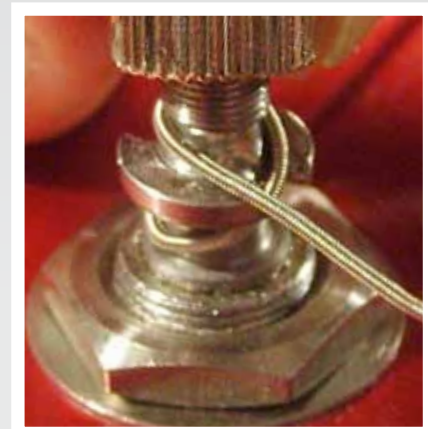


MERGE THE STRING UP TROUGH THE STRING RECES TOWARDS THE THREAD.

4



BEND THE STRING AROUND THE SHAFT AS SHOWN IN THE PICTURE AN SCREW ON THE LOCK NUT

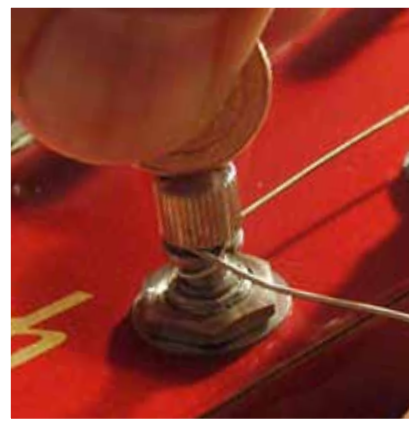


GETTING STARTED >>> HOW TO USE THE STRING SHAFT

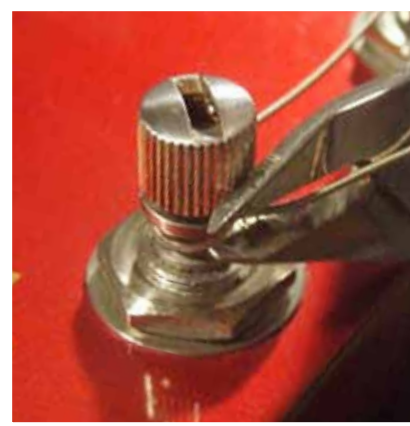
5



TIGHTEN WITH A SMALL COIN THE LOCK NUT SMOOTHLY BY HAND. THE STRING MUST ENCIRCLE THE STRING SHAFT COMPLETELY.



6



CUT THE END OF THE STRING CLOSE TO THE STRING SHAFT.

7



NOTE: DO NOT OVER TIGHTEN THE LOCK NUT AS YOU MAY CAUSE DAMAGE TO THE GEAR WHEELS (MAX 1NM TORQUE)!



DO NOT USE ANY TOOLS TO TIGHTEN THE LOCK NUT!

USE STRING UP MODE
SEE PAGE 21

GETTING STARTED  **FIRST STEPS**

GETTING STARTED FIRST STEPS



PLEASE NOTE THE BASS SIDE ROBOHEADS TURN IN THE OPPOSITE DIRECTION FROM USUAL. THEY NOW TURN CLOCKWISE TO SHARPEN AND COUNTERCLOCKWISE TO FLATTEN.

1

TUNE IN SINGLE-STRING MODE ([PAGE 16](#)) TO CONCERT PITCH (STANDARD TUNING 440 HZ)

2

ENTER CALIBRATION MODE ([PAGE 28](#)) AND DO 6 - 9 EDUCATED STRUMS; DO NOT STRUM TOO HARD; 1 STRUM = ALL STRINGS WITHIN 1 SEC.; STRUM CLOSE TO THE NECK (SOUND HOLE); STRUM BY THUMB FOR BEST RESULTS;

3

AFTER CALIBRATION, TUNE AT SINGLE STRING MODE ([PAGE 16](#)) 3 TO 4 TIMES FROM STANDARD TUNING 440 HZ TO E FLAT AND BACK TO STANDARD TUNING. THIS WAY THE RUN-TIMES FOR THE ROBOHEADS ADJUST THEMSELVES VERY QUICKLY. ([BANK OVERVIEW PAGE 19](#))

4

NOW TUNE AT MULTI-STRING MODE ([PAGE 15](#)) TO 2 OR 3 ALTERNATE TUNINGS BACK AND FORTH. STRUM ALL STRINGS IN THE MANNER YOU DID IN CALIBRATION MODE. WAIT 3-5 SECONDS BETWEEN TWO STRUMS! MUTE THE STRINGS THAT ARE IN TUNE ALREADY (GREEN LED ON TUNE CONTROLLER) AND STRUM THE NOT TUNED STRINGS ONLY! TUNING SHOULD BE COMPLETED AFTER 4 STRUMS MAXIMUM. REMEMBER THAT THE SYSTEMS ALGORITHM IS STILL LEARNING THE STEPS AND ROBOHEAD RUNTIMES, THE MORE YOU TUNE THE FASTER IT WILL WORK.

GETTING STARTED >>> **HOW TO TUNE / ADDITIONAL INFORMATION**

GETTING STARTED HOW TO TUNE / ADDITIONAL INFORMATION

RE-TUNING

- 1** FOR RETUNING, STRUM ALL STRINGS IN THE MANNER YOU DID IN CALIBRATION MODE (**PAGE 28**) (STRUM BY THUMB, CLOSE TO THE NECK JOINT (SOUND HOLE), 1 STRUM = ALL STRINGS WITHIN 1 SEC.)
- 2** WAIT 3-5 SECONDS BETWEEN TWO STRUMS
- 3** AFTER STRUMMING, MUTE STRINGS THAT ARE ALREADY IN TUNE (GREEN LED ON TUNE CONROLLER) AND STRUM THE NOT TUNED STRINGS ONLY.

CHANGE TUNING

- 1** TO CHANGE THE ACTUAL TUNING (E.G. FROM STANDARD TO DADGAD) YOU CAN SELECT THE “**SINGLE-STRING MODE**” OR THE “**MULTI-STRING MODE**” . SINGLE STRING MODE IS ACTIVATED WITH A PRESS AND HOLD, MULTI-STRING MODE WITH A SINGLE CLICK ON THE ENTER BUTTON (FOR DETAILS PLEASE REFER TO “**TUNE MODE PAGE 15** AND FOLLOWING”). SINGLE STRING MODE IS RECOMMENDED TO GET FAMILIAR WITH THE SYSTEM AND WHEN YOU USE THE SYSTEM IN A LOUD ENVIRONMENT WITH AMBIENT NOISE (ESPECIALLY WITH ACOUSTIC GUITARS). MULTI-STRING MODE IS RECOMMENDED AS THE DEFAULT MODE AS SOON YOU ARE USED TO THE SYSTEM.

GETTING STARTED PERFORMANCE SPECIFICATION

1) PERFORMANCE UNDER FOLLOWING CONDITIONS

* FOLLOW THE MANUAL FROM PAGE 3 TO PAGE 14 (CALIBRATION MODE ETC.)!!

* FOR THE BEST TUNING PERFORMANCE MAKE SURE THAT THE STRINGS ARE NOT STICKING IN THE NUT (STRING FRICTION).

* THE INTONATION OF 12TH FRET FINGERED TO 12 FRET HARMONIC SHOULD BE CORRECT

* FOR STANDARD TUNING 440 HZ

* DETUNING WITHIN THE NOMINAL +/- 30 CENT RANGE.

* WITH A GOOD BATTERY CHARGE, EG. "BAT" INDICATOR IS GREEN

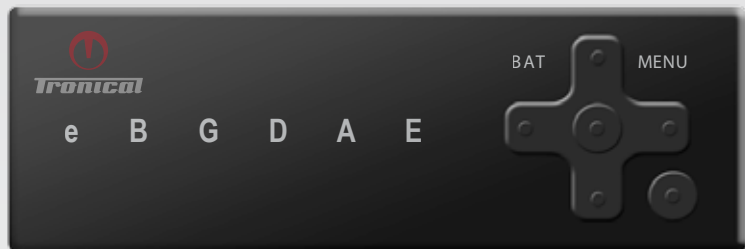
* ACCURACY SET TO STANDARD, 3 LEDS (+/- 2,5 CENT ACCURACY)

		MIN	NOM	MAX	UNIT
TUNING TIME	SINGLE-STRING MODE	3	5	10	sec per string
	MULTI-STRING MODE	3	10	20	sec all strings

		MIN	NOM	MAX	UNIT
NUMBER OF STRUMS	SINGLE-STRING MODE	1	2	4	strums per string
	MULTI-STRING MODE	1	3	5	strums all strings

START TO TUNE 








START TO TUNE >>> TUNE MODE - MULTI-STRING TUNING



PRESS "ON". THE **MULTI-STRING MODE** COMES UP WITH THE LAST COMPLETED TUNING.

PICK ALL STRINGS AT ONCE - TUNING BEGINS.

PICK STRINGS AGAIN IF THEY ARE NOT IN TUNE (**RED**).
MUTE STRINGS THAT ARE ALREADY IN TUNE (**GREEN**).

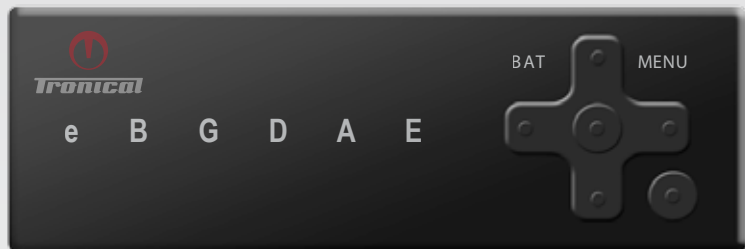
-  : STRING IN TUNE
-  : STRING NOT IN TUNE (PICK STRING)
-  : FREQUENCY OUT OF PITCH WINDOW
-  : RESPECTIVE ROBOHEAD IS IN MOVEMENT
-  : FREQUENCY MEASUREMENT IN PROGRESS
-  : INTERFERENCE BETWEEN LOWER AND HIGHER STRINGS
-  MUTE LOWER STRINGS THAT ARE IN TUNE AND STRUM HIGHER STRINGS AGAIN.



PRESS & HOLD "ENTER" TO CHANGE TO SINGLE STRING MODE.

WHEN TUNING IS COMPLETED THE SYSTEM TURNS OFF AUTOMATICALLY.

START TO TUNE >>> TUNE MODE - SINGLE-STRING TUNING



PRESS & HOLD "ON". THE SINGLE-STRING MODE COMES UP WITH THE LAST COMPLETED TUNING.



IF YOU ARE IN TUNING SELECTION MODE ALREADY, SELECT DESIRED PRESET. THEN PRESS & HOLD "ENTER" FOR SINGLE STRING TUNING.

PICK ONE STRING AFTER ANOTHER AS INDICATED, UNTIL ALL STRINGS ARE IN TUNE (GREEN).



PRESS "LEFT" OR "RIGHT" TO SELECT A STRING YOU WOULD LIKE TO TUNE.



MUTE STRINGS THAT ARE ALREADY IN TUNE (GREEN).

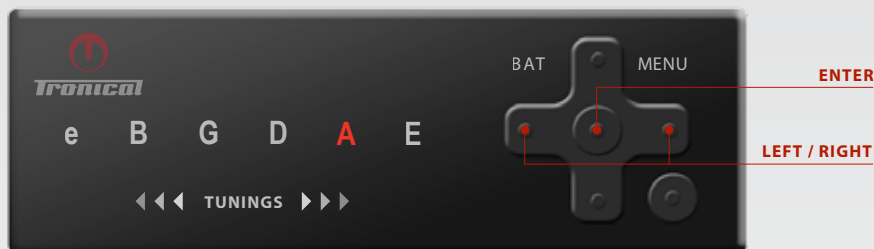


SEE LED EXPLANATION ON PAGE 2 OR SEE MULTI-STRING TUNING

WHEN TUNING IS COMPLETED THE SYSTEM TURNS OFF AUTOMATICALLY.

START TO TUNE >>> TUNING SELECTION

>>> SWITCH BETWEEN RED, GREEN AND BLUE BANK



PRESS "ON". THE **MULTI-STRING MODE** COMES UP WITH THE LAST COMPLETED TUNING.

NOW PRESS "BACK" ON THE TUNE CONTROLLER FOR **TUNING SELECTION**. THE MENU LED WILL SWITCH OFF.

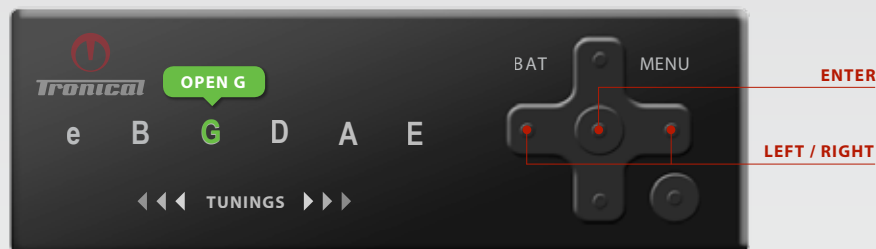
PRESS "UP" OR "DOWN" TO NAVIGATE BETWEEN THE **RED, BLUE** AND **GREEN** BANK. EACH BANK HOLDS 6 TUNINGS.

TO SELECT ANY TUNING (E-e) PRESS "LEFT" OR "RIGHT". SINGLE-CLICK ON "ENTER" TO ACTIVATE SELECTED TUNING IN **MULTI-STRING MODE**. OR PRESS AND HOLD "ENTER" FOR **SINGLE-STRING MODE**.

THE MENU LED WILL LIGHT UP **BLUE**.

START TO TUNE >>> TUNING SELECTION

>>> EXAMPLE: "OPEN G" MAJOR CHORD



PUSH "ON" BUTTON, THE SYSTEM WILL COME UP WITH THE LAST COMPLETED TUNING. THEN PUSH "BACK" (SAME BUTTON) TO ENTER **TUNING SELECTION MODE**. THE MENU LED SWITCHES OFF.

PUSH "UP" OR "DOWN" TO NAVIGATE TO THE **GREEN** BANK.



THE COLOR OF RESPECTIVE IS INDICATED BY THE COLOR OF THE STRING LED'S

PUSH "LEFT" OR "RIGHT" UNTIL G-LED IS SHINING **GREEN**.

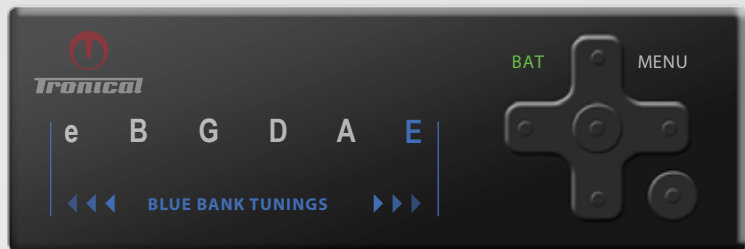
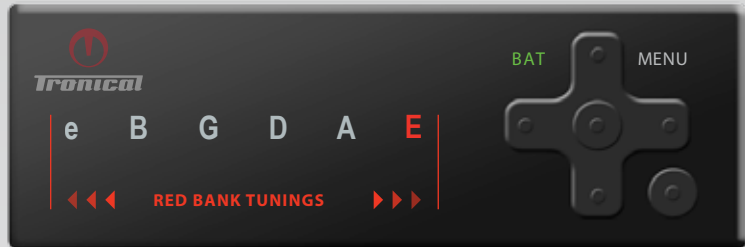
SINGLE-CLICK ON "ENTER" FOR MULTI-STRING MODE OR PUSH & HOLD "ENTER" FOR SINGLE-STRING MODE

ONCE THE TUNING IS ACTIVATED THE ROBOHEADS START IMMEDIATELY IN ORDER TO CHANGE THE PITCH. KEEP YOUR HANDS AWAY FROM ROBOHEADS AND STRINGS DURING THIS AUTOMATIC MOVE PHASE (0.5 TO 2 SECONDS).

AFTER ALL ROBOHEADS HAVE STOPPED PICK THE INDICATED STRING (SINGLE TUNE MODE) OR STRUM ALL STRINGS (MULTI TUNE MODE) TO START FINE TUNE PHASE. WHEN ALL STRINGS ARE IN TUNE THE SYSTEM IS SWITCHING OFF AUTOMATICALLY.

START TO TUNE >>> TUNING SELECTION

>>> BANK OVERVIEW



THE RED BANK

	E6 th	A5 th	D4 th	G3 rd	B2 nd	e1 st
E "STANDARD"	E2	A2	D3	G3	B3	E4
A "DADGAD"	D2	A2	D3	G3	A3	D4
D "LOW D"	D2	G2	C3	F3	A3	D4
G "DROP-D"	D2	A2	D3	G3	B3	E4
B "EB"	EB2	AB2	DB3	GB3	BB3	EB4
e "DOUBLE DROP-D"	D2	A2	D3	G3	B3	D4

THE GREEN BANK

	E6 th	A5 th	D4 th	G3 rd	B2 nd	e1 st
E "OPEN E"	E2	B2	E3	G#3	B3	E4
A "OPEN A"	E2	A2	E3	A3	C#4	E4
D "OPEN D"	D2	A2	D3	F#3	A3	D4
G "OPEN G"	D2	G2	D3	G3	B3	D4
B "DOBRO"	G2	B2	D3	G3	B3	D4
e "ALL 4TH"	E2	A2	D3	G3	C4	F4

THE BLUE BANK

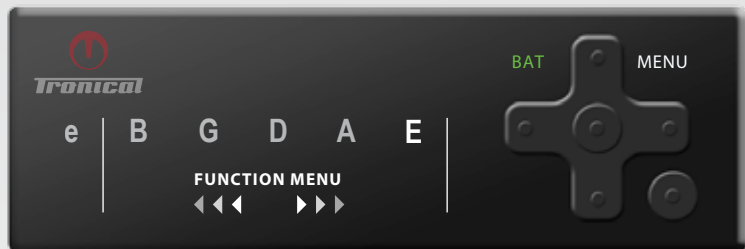
	E6 th	A5 th	D4 th	G3 rd	B2 nd	e1 st
E "USER-DEFINED 01"	E2	A2	D3	G3	B3	E4
A "USER-DEFINED 02"	E2	A2	D3	G3	B3	E4
D "USER-DEFINED 03"	E2	A2	D3	G3	B3	E4
G "USER-DEFINED 04"	E2	A2	D3	G3	B3	E4
B "USER-DEFINED 05"	E2	A2	D3	G3	B3	E4
e "USER-DEFINED 06"	E2	A2	D3	G3	B3	E4



THE DEFAULT FOR ANY TUNING IN THE BLUE BANK IS STANDARD TUNING. TO SAVE USER-DEFINED TUNINGS, SEE "FUNCTION MENU - CUSTOM TUNING"

FUNCTION MENU FUNCTION OVERVIEW

 STRING UP AND DOWN MODE / CUSTOM TUNING /
REFERENCE TUNING / FIRMWARE VERSION / BATTERY LEVEL



PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **FUNCTION MENU** PRESS AND HOLD THE „UP" BUTTON UNTIL MENU LED LIGHT UP WHITE.

PRESS "LEFT" OR "RIGHT" TO NAVIGATE THROUGH **FUNCTION MENU** (E, A, D, G, B). PRESS "ENTER" TO CONFIRM OR PRESS "BACK" FOR **TUNING SELECTION MODE**.

FUNCTION MENU OVERVIEW

- E** > STRING UP AND DOWN MODE
- A** > CUSTOM TUNING MODE
- D** > REFERENCE TUNING
- G** > FIRMWARE VERSION
- B** > BATTERY LEVEL

FUNCTION MENU E **STRING UP AND DOWN MODE**

FOR RESTRINGING YOUR GUITAR



MAX. RECOMENDED STRING GAUGES: .013 .017 .026 .035 .045 .056 (THIRTEEN TO FIFTY-SIXES)

NOTE: HIGHER STRING GAUGES MAY CAUSE DAMAGE TO THE TUNERS!



PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **FUNCTION MENU** PRESS AND HOLD THE „UP" BUTTON UNTIL MENU LED LIGHT UP WHITE.

SELECT WHITE "E" -LED AND CONFIRM WITH "ENTER". THE MENU LED SWITCHES OFF, THE "E" LIGHTS UP MAGENTA. PRESS "DOWN" TO UNWIND THE LOW "E" STRING OR PRESS "UP" TO WIND UP THE LOW "E" STRING. PRESS "LEFT" OR "RIGHT" BUTTON TO CHOOSE ANY OTHER STRING TO WIND UP OR DOWN IN THE SAME MANNER. PRESS "BACK" FOR



DURING "STRING UP AND DOWN MODE" THE "SINGLE-STRING TUNING MODE" IS ACTIVE. IT IS RECOMMENDED TO WIND THE STRING ROUGHLY (+- 300 CENT) TO STANDARD PITCH, THEN RELEASE THE UP/DOWN BUTTON AND PLUCK THE STRING. THE SYSTEM TAKES OVER AND WILL TUNE THE STRING TO STANDARD PITCH.



**NOTE:
OVER-TIGHTENING MAY RIP THE STRINGS OR CAUSE DAMAGE TO THE TUNER (DEPENDING ON STRING GAUGE)**

**FOLLOW "FIRST STEPS"
SEE PAGE 9**

FUNCTION MENU **A** CUSTOM TUNING



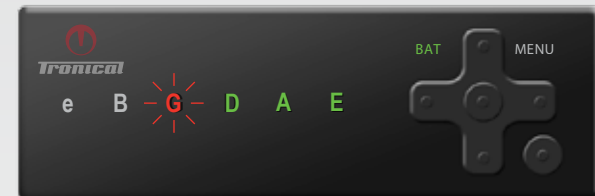
TUNE YOUR GUITAR MANUALLY TO ANY TUNING THAT YOU WISH TO SAVE ON A PRESET POSITION (BLUE BANK)

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **FUNCTION MENU** PRESS AND HOLD THE "UP" BUTTON UNTIL MENU LED LIGHT UP WHITE. PRESS "LEFT/RIGHT" BUTTON TO SELECT "A"-LED AND PRESS "ENTER".

PICK THE STRING INDICATED BY THE RED BLINKING LED STARTING WITH LOW "E". MEASUREMENT BEGINS INDICATED BY QUICK YELLOW FLASHING "E"-LED. UPON COMPLETION THE "E"-LED WILL LIGHT UP SOLID GREEN.

MUTE THE "E" STRING AND PROCEED WITH THE "A" STRING IN THE SAME MANNER AND SO FORTH UNTIL ALL STRINGS ARE MEASURED (**GREEN**).

EXAMPLE:



ETC.

FUNCTION MENU A CUSTOM TUNING | SAVING



UPON COMPLETION OF MEASUREMENT THE SYSTEM SWITCHES TO THE BLUE BANK AUTOMATICALLY INDICATED BY THE BLUE FLASHING LED.

PUSH "LEFT/RIGHT" TO SELECT ONE OF SIX PRESET POSITIONS (E-e) AND PUSH "ENTER" TO SAVE YOUR TUNING.

ALL STRING LED'S WILL FLASH UP GREEN TWO TIMES FOR CONFIRMATION.

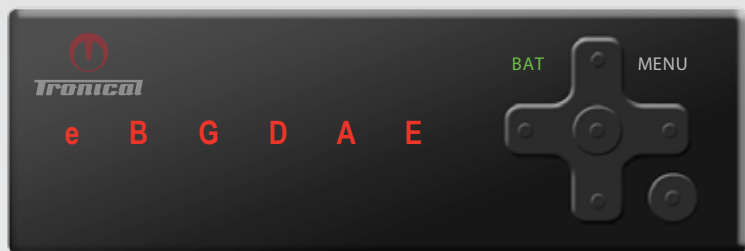
THE SYSTEM SWITCHES BACK TO **FUNCTION MENU** AUTOMATICALLY. THE MENU LED LIGHTS UP WHITE.

PUSH "BACK" FOR **TUNING SELECTION MENU** OR PUSH AND **HOLD "BACK"** TO SWITCH THE SYSTEM OFF.



YOU CAN SAVE CUSTOM TUNINGS IN THE BLUE BANK ONLY. YOU CAN SELECT YOUR CUSTOM TUNING IN THE SAME MANNER AS ANY OTHER TUNING.

FUNCTION MENU **D** REFERENCE TUNING



SEQUENCE

- 1) TUNE THE GUITAR TO THE DESIRED TUNING PRESET.
- 2) CHANGE THE PITCH OF ONE STRING (REFERENCE STRING) BY MANUALLY TURNING THE KEY.
- 3) ENTER AND EXECUTE REFERENCE MODE

TO ENTER REFERENCE TUNING MODE:

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF.

NOW PRESS AND HOLD THE "UP" BUTTON UNTIL MENU LED LIGHTS UP WHITE. PRESS "LEFT/RIGHT" BUTTON TO SELECT "D"-LED.

PRESS "ENTER" FOR **REFERENCE TUNING** MODE. THE MENU LED SWITCHES OFF, E-LED FLASHES RED.

PRESS "LEFT/RIGHT" BUTTON TO SELECT THE REFERENCE STRING.

PLUCK YOUR REFERENCE STRING MEASUREMENT BEGINS INDICATED BY QUICK FLASHING YELLOW LED OF RESPECTIVE STRING. UPON COMPLETION THE RESPECTIVE LED LIGHTS UP GREEN AND ALL OTHERS ARE SHINING RED.

STRUM ALL STRINGS (MULTI-STRING MODE).

THE SYSTEM WILL TUNE YOUR GUITAR TO THE SELECTED TUNING PRESET IN RELATION TO THE MEASURED REFERENCE PITCH.



THE LATEST COMPLETED REFERENCE TUNING IS AVAILABLE ON START-UP UNTIL YOU COMPLETE ANY OTHER TUNING.

SHOULD YOU WISH TO STORE YOUR REFERENCE TUNING REFER TO "CUSTOM TUNING" PAGE 24-25.

FUNCTION MENU **G** FIRMWARE VERSION



PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF.

TO ENTER **FUNCTION MENU** PRESS AND HOLD "UP" UNTIL MENU LED LIGHTS UP WHITE. PRESS "LEFT/RIGHT" BUTTON TO SELECT "G"-LED AND PRESS "ENTER".

LED'S START FLASHING THREE TIMES, ONE TIME FOR EACH OF THE THREE FIRMWARE VERSION DIGITS. THE FIRST DIGIT NUMBER IS GREEN, THE SECOND BLUE AND THIRD RED. EACH COLOR SYMBOLIZES VALUES FROM 1-6 ACCORDING TO THE DIGITS.



ZERO IS SYMBOLIZED IF ALL LED'S ARE WHITE.

EXAMPLE: LED'S FLASH THREE TIMES

FLASH: 1



VERSION:

1

FLASH: 2



6

FLASH: 3



0



B

BATTERY LEVEL

FUNCTION MENU



PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION** MODE. MENU LED IS OFF. PRESS AND HOLD THE "UP" BUTTON UNTIL MENU LED LIGHTS UP WHITE. USE "LEFT/RIGHT" BUTTON TO SELECT LED-B AND PRESS "ENTER".

A FULLY CHARGED BATTERY DISPLAYS ALL LED'S AS SHOWN LEFT.

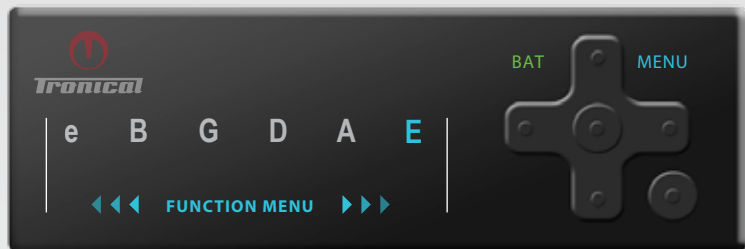
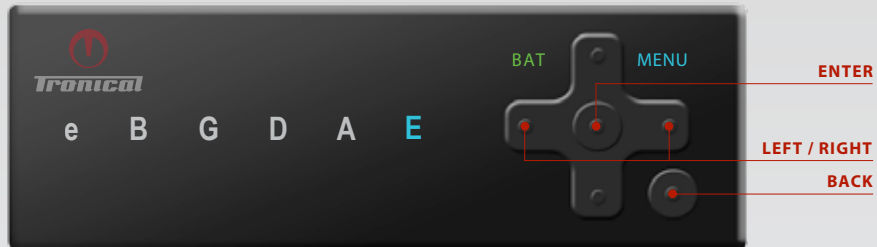


IF THE BATTERY IS LOW, THE ROBOHEADS WILL LOSE PERFORMANCE. IF ONLY TWO RED LED'S (A & E) ARE DISPLAYED, CHARGE THE BATTERY IMMEDIATELY.

CONFIGURATION MENU OVERVIEW



CALIBRATION MODE / ACCURACY LEVEL / ROBOHEAD DELAY / RESET / ROBOHEAD SPEED / INTERFERENCE LEVEL



PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **CONFIGURATION MENU** PRESS AND HOLD THE "DOWN" BUTTON UNTIL MENU LED AND "E" LIGHTS UP LIGHT BLUE.

PRESS "LEFT/RIGHT" BUTTON TO SELECT THE DESIRED FUNCTION.

CONFIGURATION MENU OVERVIEW

- E** CALIBRATION MODE
- A** ACCURACY LEVEL
- D** ROBOHEAD DELAY
- G** RESET
- B** ROBOHEAD SPEED
- e** INTERFERENCE LEVEL

CONFIGURATION MENU CALIBRATION MODE



TRONICAL TUNE SENSES THE CHARACTERISTIC SOLID-BORNE SOUND OF YOUR GUITAR. THIS FEATURE IS ESSENTIAL TO ENHANCE THE TUNING SPEED AND ACCURACY. TO GET THE BEST RESULTS STRUM THE STRINGS DURING THE CALIBRATION PROCEDURE IN THE SAME MANNER YOU WOULD LIKE TO STRUM THE STRINGS IN TUNEMODE.



GUITAR MUST BE TUNED TO STANDARD TUNING (RED BANK "E").
STRUM BY THUMB CLOSE TO THE NECK FOR BEST RESULTS, DO NOT STRUM TOO HARD.

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **CONFIGURATION MENU** PRESS AND **HOLD** THE "DOWN" BUTTON UNTIL MENU AND "E" LED LIGHTS UP LIGHT BLUE.

SELECT "E"-LED AND CONFIRM WITH "ENTER".

MUTE ALL STRINGS AND WAIT UNTIL ALL LED'S START TO FLASH RED.

STRUM ALL STRINGS WITHIN 1 SECOND.

CALIBRATION MEASUREMENT BEGINS.

CONFIGURATION MENU CALIBRATION MODE



STRUM IS RECOGNIZED IF LED´S ARE **GREEN**.

STRUM NOT RECOGNIZED IF LED´S ARE FLASHING **RED**.

MUTE THE STRINGS AFTER A STRUM HAS BEEN RECOGNIZED.

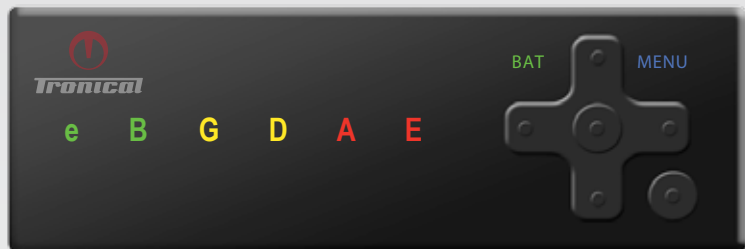
CALIBRATION **ONE (E)** OF **SIX** IS COMPLETE.



STRUM IS RECOGNIZED IF LED´S ARE **GREEN**.

AFTER TWO SECONDS ALL LED´S START TO BLINK AGAIN.
STRUM ALL STRINGS WITHIN ONE SECOND.
CALIBRATION **TWO** OF **SIX** BEGINS.

CONFIGURATION MENU E CALIBRATION MODE



STRUM IS RECOGNIZED IF LED´S ARE **GREEN**.

STRUM IS NOT RECOGNIZED OR AWAITING NEXT STRUM IF LED´S ARE FLASHING **RED**.

CALIBRATION **TWO (A)** OF **SIX** IS COMPLETE.



MUTE THE STRINGS WITH YOUR HAND. AFTER TWO SECONDS ALL LED´S START TO BLINK AGAIN. STRUM ALL STRINGS. CALIBRATION THREE OF SIX BEGINS. ETC.

WHEN THE CALIBRATION PROCESS HAS BEEN COMPLETED CORRECTLY, LED´S WILL DISPLAY A PROGRESS BAR FROM RED (E) TO GREEN (e) AND FLASH GREEN TWICE. AFTER THAT THE SYSTEM SWITCHES AUTOMATICALLY TO MULTI-STRING TUNE MODE. CALIBRATION IS COMPLETE. STRUM ALL STRINGS TO TUNE THE GUITAR. WHEN TUNING IS COMPLETED THE SYSTEM TURNS OFF AUTOMATICALLY.



USUALLY CALIBRATION TAKES 6 STRUMS. SOMETIMES UP TO 9 STRUMS DEPENDING ON GUITAR MODEL. (SELECT GUITAR MODEL, SEE PAGE 42)

CONFIGURATION MENU **A** ACCURACY MODE



EXAMPLE: HIGHEST ACCURACY LEVEL

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **CONFIGURATION MENU** PRESS AND HOLD THE "DOWN" BUTTON UNTIL MENU AND "E" LED LIGHT UP LIGHT BLUE.

TO ACCESS **ACCURACY MODE** SELECT "A"-LED AND PRESS "ENTER".

ACCURACY :

e	B	G	D	A	E	
+/-	+/-	+/-	+/-	+/-	+/-	
1,0	1,5	2,0	2,5	3,0	3,5	CENT

PRESS "LEFT" OR "RIGHT" FOR DESIRED ACCURACY LEVEL AND CONFIRM WITH "ENTER"



THE DEFAULT IS +/- 2,5 CENT (3 LED'S E-D).

THE HIGHEST ACCURACY LEVEL (ALL LED'S ON AS SHOWN LEFT) WILL INCREASE TUNING TIME.

A LOWER ACCURACY LEVEL WILL DECREASE TUNING TIME RESPECTIVELY.

CONFIGURATION MENU

D

ROBOHEAD DELAY



SET THE START-DELAY OF THE ROBOHEADS.



EXAMPLE: MAX DELAY



WHEN YOU CHANGE A TUNING THE ROBOHEADS WILL START IMMEDIATELY IN ORDER TO CHANGE THE PITCH. WITH THIS FUNCTION YOU CAN DELAY THE START UP TO 2.5 SECONDS.

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **CONFIGURATION MENU** PRESS AND HOLD THE "DOWN" BUTTON UNTIL MENU AND "E" LED LIGHT UP LIGHT BLUE.

TO ACCESS **ROBOHEAD DELAY** SELECT "D"-LED AND PRESS "ENTER".



THE DEFAULT IS NO DELAY (ALL LED'S ON).

PRESS "LEFT" OR "RIGHT" TO SELECT DESIRED DELAY LEVEL AND CONFIRM WITH "ENTER". ALL STRING LED'S FLASH GREEN TWICE TO CONFIRM SELECTED DELAY LEVEL HAS BEEN STORED.

PUSH "BACK" FOR **CONFIGURATION MENU**.

THE MAX DELAY LEVEL AS SHOWN LEFT WILL DELAY THE START OF THE ROBOHEADS BY 2,5 SEC. EACH ADDITIONAL LED DECREASES THE DELAY BY 0,5 SEC.

CONFIGURATION MENU **RESET**





PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **CONFIGURATION MENU** PRESS AND HOLD THE "DOWN" BUTTON UNTIL MENU AND "E" LED LIGHTS UP LIGHT BLUE.

TO ACCESS **RESET** SELECT "G"-LED AND PRESS "ENTER".

SELECT "E"-LED FOR RESET OF ALL CUSTOM TUNINGS. SELECT "A"-LED FOR FACTORY RESET (ALL DATA). TO CONFIRM PRESS AND HOLD "UP" AND PRESS AND HOLD "ENTER" AT THE SAME TIME.

RESET WILL BE CONFIRMED BY A LED CYCLE.

RESET STYLES OVERVIEW

-  RESET ALL CUSTOM TUNINGS
-  FACTORY RESET (RESET ALL DATA EXCEPT OF CUSTOMER TUNING DATA)

CONFIGURATION MENU **B** **ROBOHEAD SPEED**

SETS THE SPEED OF THE ROBOHEADS FOR ALL TUNING MODES.



EXAMPLE: HIGHEST SPEED LEVEL



USE THIS FUNCTION TO SET THE SPEED (AND ACCELERATION) OF THE ROBOHEADS. IF THE NECK OF YOUR GUITAR NEEDS MORE TIME TO STABILIZE WHEN CHANGING TUNINGS, REDUCE THE SPEED.

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **CONFIGURATION MENU** PRESS AND HOLD THE "DOWN" BUTTON UNTIL MENU AND "E" LED LIGHTS UP LIGHT BLUE.

TO ACCESS **ROBOHEAD SPEED** SELECT "B"-LED AND PRESS "ENTER".



LESS ROBOHEAD SPEED CAN DECREASE STRESS TO THE STRINGS AND TO THE GUITAR NECK.

IN CASE OF FREQUENT STRING SNAPPING OR NO STABLE TUNING RESULTS AFTER LONG DISTANCE TUNINGS DUE TO NECK RELIEF, TRY A LOWER SPEED LEVEL.

SELECT ROBOHEAD SPEED BY PUSHING "LEFT" OR "RIGHT". CONFIRM WITH "ENTER" OR PUSH "BACK" FOR **BOTTOM FUNCTION MENU**.



THE DEFAULT IS SET TO THE HIGHEST SPEED LEVEL AS SHOWN LEFT (ALL LED'S ON).

CONFIGURATION MENU INTERFERENCE LEVEL



EXAMPLE: HIGHEST INTERFERENCE LEVEL.



A GUITAR STRING IS PRODUCING NOT ONLY THE FUNDAMENTAL FREQUENCY BUT ALSO SEVERAL OVERTONES (E.G. THE E STRING IS PRODUCING 82.41 HERTZ AS FUNDAMENTAL AND OVERTONES AT 164.82, 247.23 AND SO FORTH).

THAT MEANS THAT THE E-STRING IS INTERFERING WITH THE B-STRING BECAUSE THE SECOND OVERTONE OF THE E-STRING AND THE FUNDAMENTAL OF THE B-STRING INTERFERE AROUND 247 HERTZ.

WHEN YOU RECOGNIZE THAT THE ROBOHEAD OF THE B STRING IS TURNING WITHOUT PLUCKING THE B-STRING REDUCE THE INTERFERENCE LEVEL. IF YOUR GUITAR IS NOT PRODUCING PRONOUNCED OVERTONES YOU CAN INCREASE THE INTERFERENCE LEVEL TO IMPROVE PERFORMANCE.

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **CONFIGURATION MENU** PRESS AND HOLD THE "DOWN" BUTTON UNTIL MENU AND "E" LED LIGHTS UP LIGHT BLUE. TO ACCESS **INTERFERENCE LEVEL** SELECT "e"-LED AND PRESS "ENTER".



SETS THE INTERFERENCE LEVEL FOR ALL TUNING MODES.

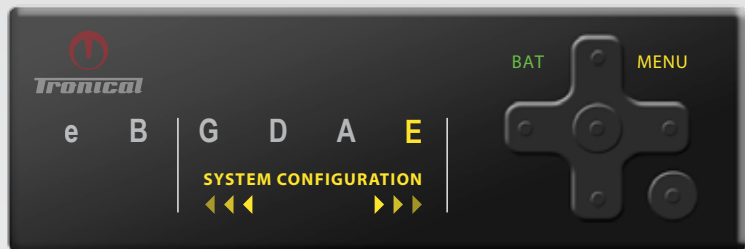
DEFAULT IS 3-LEDS

SELECT BETWEEN A HIGH AND LOW INTERFERENCE LEVEL TO PREVENT THAT THE HARMONIC OF A LOW STRING IS RECOGNIZED AS A HARMONIC OF A HIGH STRING.

SYSTEM CONFIGURATION

SYSTEM CONFIGURATION >>> OVERVIEW

>>> GAIN / GUITAR TYPE / PITCH WINDOW / DOUBLE CLICK



THE SYSTEM CONFIGURATION MENU IS USED TO CONFIGURE SYSTEM RELEVANT PARAMETERS LIKE GUITAR-TYPE, GAIN AND FREQUENCY SNAP. THE CLICKSTREAM TO ENTER THIS MENU IS MORE COMPLICATED TO PREVENT UNINTENDED CHANGES. THESE SETTINGS ARE AFFECTING SYSTEM PERFORMANCE AND ACCURACY. PLEASE STEP GENTLY.

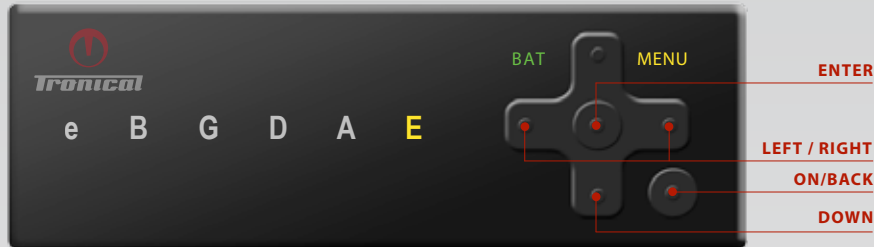
PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **SYSTEM CONFIGURATION** PRESS AND **HOLD "RIGHT"** AND PRESS AND **HOLD "ENTER"** AT THE SAME TIME. "MENU"-LED AND "E"-LED LIGHT UP YELLOW.

PRESS "LEFT" OR "RIGHT" TO NAVIGATE THROUGH MENU (E, A, D). PRESS "ENTER" TO CONFIRM OR PRESS "BACK" FOR **TUNING SELECTION MODE**.

SYSTEM CONFIGURATION OVERVIEW

- E** GAIN
- A** GUITAR TYPE
- D** PITCH WINDOW
- G** SINGLE OR DOUBLE CLICK FOR TUNE

SYSTEM CONFIGURATION **E** **GAIN SETTINGS**



TRONICAL TUNE HAS A SUPERIOR DYNAMIC RANGE TO SENSE THE SOLID-BORNE SOUND OF YOUR INSTRUMENT (>130DB). THIS IS ACHIEVED BY A PIEZO TRANSDUCER, A DYNAMICAL ADJUSTABLE AMPLIFIER AND A 24 ANALOG TO DIGITAL CONVERTER (ADC). WITH THE "GAIN SETTING" THE STARTING POINT OF THE AMPLIFIER IS SET. FROM THIS STARTING POINT THE AMPLIFIER IS ADJUSTED DURING THE TUNING PROCESS IN THE RANGE OF +-9DB.

WHEN YOU PERFORM A "CALIBRATION" A GOOD STARTING POINT FOR THE AMPLIFIER IS SET. YOU CAN OVERRIDE THE GAIN SETTING WITH THIS FUNCTION. BE CAREFUL WHEN CHANGING THE GAIN!

INCREASE THE GAIN IF STRINGS ARE NOT RECOGNIZED WHEN PLUCKED (STRING LED IS NOT GETTING YELLOW, STRING IS NOT TUNED) OR SIGNAL IS FADING OUT TOO QUICK.

DECREASE THE GAIN IF THE GUITAR IS TOO SENSITIVE OR IF USED IN LOUD ENVIRONMENTS WITH AMBIENT NOISE.

GAIN LEVEL : 2.5DB, 6DB, 9DB, 12DB, 15DB, 18DB

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **SYSTEM CONFIGURATION** PRESS AND HOLD "RIGHT" AND PRESS AND HOLD "ENTER" AT THE SAME TIME. "MENU"-LED AND "E"-LED LIGHT UP YELLOW.

FOR **GAIN SETTING** SELECT "E"-LED AND PRESS "ENTER"

SELECT THE PIEZO SIGNAL LEVEL BY PUSHING "LEFT" OR "RIGHT". CONFIRM WITH "ENTER" OR PUSH "BACK" FOR **SYSTEM CONFIGURATION MENU**.



THE DEFAULT IS 3 LEDS AND WILL BE ADAPTED WHEN EXECUTING CALIBRATION MODE. SELECTING A DIFFERENT LEVEL WILL AFFECT SYSTEM PERFORMANCE OR CAN CAUSE MALFUNCTION.

SYSTEM CONFIGURATION **A** GUITAR TYPE



 GREEN BLINKING "E" LED :
E-GUITAR

 GREEN "E" & BLUE "A" BLINKING LED'S:
ACOUSTIC GUITAR



IT IS IMPORTANT TO SETUP THE SYSTEM TO THE RIGHT GUITAR TYPE. ACOUSTIC GUITARS ARE EQUIPPED WITH THICKER STRINGS AND SHOW DIFFERENT ACOUSTIC CHARACTERISTICS.

AFTER A FACTORY RESET THE SYSTEM DEFAULTS TO E=ELECTRIC GUITAR.

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **SYSTEM CONFIGURATION** PRESS AND **HOLD** "RIGHT" AND PRESS AND **HOLD** "ENTER" AT THE SAME TIME. "MENU"-LED AND "E"-LED LIGHT UP YELLOW.

FOR **GUITAR TYPE** SELECT "A"-LED AND PRESS "ENTER"

SELECT EITHER LED-E FOR "ELECTRIC" OR "A" FOR "ACOUSTIC" GUITARS AND PRESS "ENTER" TO CONFIRM.

SYSTEM CONFIGURATION **D** **PITCH WINDOW**



EXAMPLE:

EVERY TIME WHEN A TUNING IS COMPLETED THE SYSTEM STORES THE ACTUAL PITCH FOR EACH STRING. ON RE-TUNE THE SYSTEM CHECKS IF THE ACTUAL STRING FREQUENCIES WARE WITHIN A CERTAIN PITCH WINDOW. IF A STRING IS OUTSIDE IT´S PITCH WINDOW THE CORRESPONDING LED TURNS PURPLE. IF AT LEAST ONE STRING IS OUT OF IT´S PITCH WINDOW THE SYSTEM TURNS AUTOMATICALLY TO SINGLE TUNE MODE AFTER THE REMAINING STRINGS ARE TUNED.THE PITCH WINDOW CAN BE ADJUSTED FROM 25 TO 150 CENT.

PITCH WINDOW


e	B	G	D	A	E	
150	100	75	50	35	25	CENT

PRESS "LEFT" OR "RIGHT" FOR DESIRED PITCH WINDOW AND CONFIRM WITH "ENTER"



DEFAULT IS 75 CENT = 4 LEDS.

EXAMPLE:

THE PITCH WINDOW IS SET TO 100CENT=5LEDS. THE LAST COMPLETED TUNING WAS A STANDARD EADGBE. NOW THE SYSTEM IS STARTED AGAIN. IF THE PITCH OF THE LOW E STRING IS MORE THAN 100CENT OFF, THE CORRESPONDING E-LED WOULD BECOME MAGENTA  (LOWER THAN EB OR HIGHER THAN F).

SYSTEM CONFIGURATION SINGLE OR DOUBLE CLICK FOR TUNE



 GREEN BLINKING "E" LED :
SINGLE CLICK (DEFAULT)

 GREEN "E" & BLUE "A" BLINKING LED'S:
DOUBLE CLICK

SELECT BETWEEN SINGLE CLICK OR DOUBLE CLICK TO ACTIVATE TUNING.



SINGLE CLICK: PRESS ONCE TO CONFIRM SELECTED TUNING

DOUBLE CLICK: PRESS TWICE TO CONFIRM SELECTED TUNING
(MORE TIME TO REMOVE HAND OUT OF THE SYSTEM / ROBOHEADS)

PUSH "ON" BUTTON. THE SYSTEM COMES UP WITH THE LAST COMPLETED TUNING IN MULTI-STRING MODE. PUSH "BACK" BUTTON TO ENTER **TUNING SELECTION MODE**. MENU LED IS OFF. TO ENTER **SYSTEM CONFIGURATION** PRESS AND HOLD "RIGHT" AND PRESS AND HOLD "ENTER" AT THE SAME TIME. "MENU"-LED AND "E"-LED LIGHT UP YELLOW.

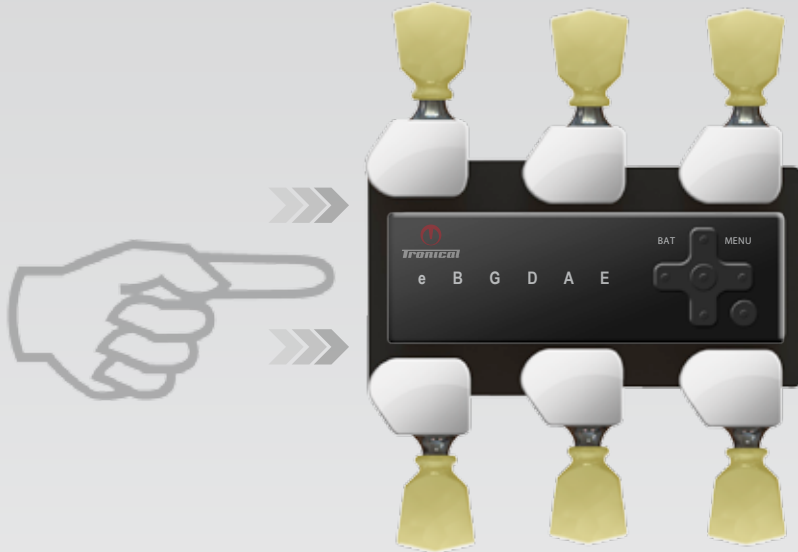
FOR **GUITAR TYPE** SELECT "G"-LED AND PRESS "ENTER"

SELECT EITHER LED-E FOR "SINGLE CLICK" OR "A" FOR "DOUBLE CLICK". AND PRESS "ENTER" TO CONFIRM.

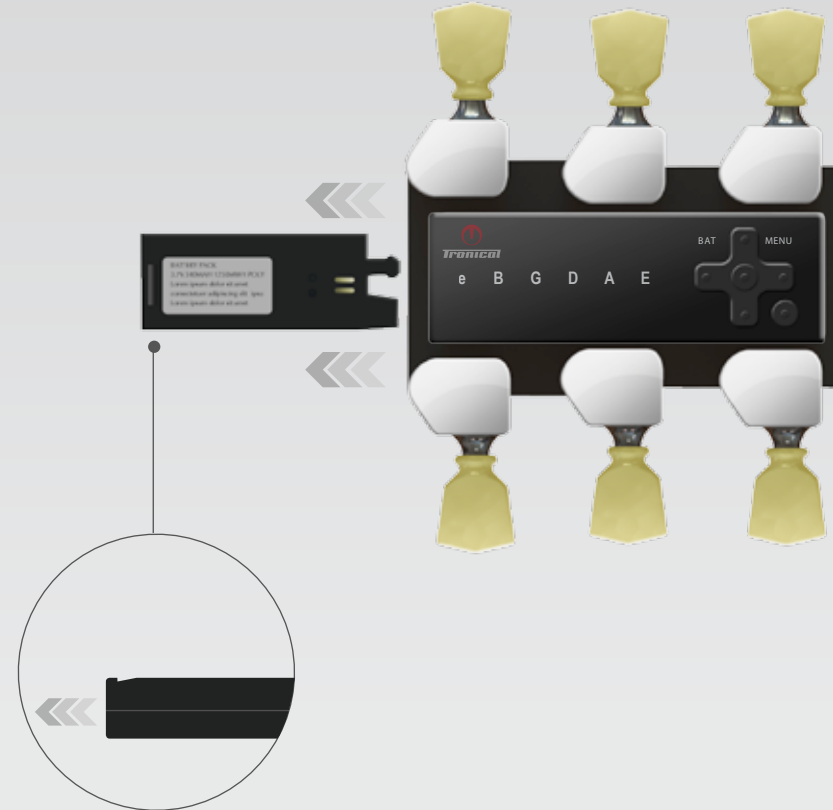
TRONICAL TUNE  **REPLACE BATTERY / CHARGE BATTERY**

TRONICAL TUNE >>> REPLACE BATTERY

1 PRESS ON THE BATTERY TO RELEASE.



2 PULL OUT THE BATTERY



TRONICAL TUNE CHARGE THE BATTERY



BATTERY PACK

3.7V 340mAh 1258mWh LI-POLYMER

A BATTERY THAT HAS BEEN INFREQUENTLY USED, OR A NEW ONE, COULD HAVE REDUCED CAPACITY. YOU MAY NEED TO RECHARGE IT A NUMBER OF TIMES. WHEN THE BATTERY LEVEL IS LOW, THE BAT LED FLASHES RED.

CAUTION:

1. DO NOT CONNECT IMPROPERLY.
2. DO NOT DISPOSE OF IN FIRE OR EXPOSE TO EXCESS HEAT.
3. DO NOT CRUSH, PUNCTURE, INCINERATE OR SHORT CIRCUIT EXTERNAL CONTACTS.



CHARGING:

CHARGE THE BATTERY LATEST WHEN LED BAT IS SHINING RED.

LI-POLYMER CHARGER

INPUT: AC100-240V 50/60HZ

OUTPUT: 4.2V \pm 300mA



BATTERY IS CHARGING




BATTERY IS CHARGED



LEGAL INFORMATION

Guidelines for safe and efficient use.

 Read this information before using Tronical Tune.

PRODUCT CARE:

Do not expose your product to liquid or moisture or to humidity.

Do not expose your product to extreme high or low temperatures.

Do not expose your product to lit candles, cigarettes, or cigars, or to open flames etc.

Do not drop, throw or try to bend the product as rough treatment could damage it.

Do not attempt to disassemble your product. The product does not contain consumer serviceable or replaceable components. Only Tronical GmbH should perform service.

If you will not be using the product for a while, store it in a place that is dry, free from damp, dust and extreme temperatures.

DISPOSAL OF OLD ELECTRICAL & ELECTRONIC EQUIPMENT:



This symbol on the product indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

POWER SUPPLY

Connect the AC power adapter only to designated power sources as marked on the product. To reduce risk of damage to electric cord, remove it from the outlet by holding onto the AC adapter rather than the cord. Make sure the cord is positioned so that it will not be stepped on, tripped over or otherwise subjected to damage or stress. To reduce risk of electric shock, unplug the unit from any power source before attempting to clean it. »

The AC power adapter must not be used outdoors or in damp areas. DANGER - Never alter the AC cord or plug. If the plug will not fit into the outlet, have a proper outlet installed by a qualified electrician. Improper connection can result in risk of electric shock.

CHILDREN:

Do not allow children to play with Tronical Tune since it contains small parts that could become detached and create a choking hazard.

BATTERY INFORMATIONS:

A rechargeable battery has long service life if treated properly. A new battery or one that has not been used for a long period of time could have reduced capacity the first few times it is used. Do not expose the battery to extreme temperatures, never above +55° C (+131° F). For maximum battery capacity, use the battery in room temperature. If the battery is used in low temperatures, the battery capacity will be reduced. The battery can only be charged in temperatures between +10°C (+50° F) and +45° C (+113° F).

RECYCLING THE BATTERY:

The battery in your Tronical Tune must be disposed of properly and should never be placed in municipal waste.

CAUTION:

1. DO NOT CONNECT IMPROPERLY.
2. DO NOT DISPOSE OF IN FIRE OR EXPOSE TO EXCESS HEAT.
3. DO NOT CRUSH, PUNCTURE, INCINERATE OR SHORT CIRCUIT EXTERNAL CONTACTS.





Tronical
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