

Min-ETuneTM

Min-ETuneTM MANUAL

v 1.0

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Min-ETune™ - OVERVIEW

6 ROBOHEADS

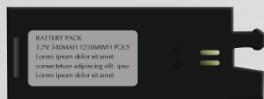
WITH NEW SURFACE LOCKING MECHANISM

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

SPARE PARTS







- » BATTERY
- » CHARGER WITH WALL-PLUG
- » ROBOHEAD (BASS OR TREBLE)
- » TUNING CONTROLLER WITH MOUNTING BOARD
- » LOCK NUT FASTENER

TUNE CONTROLLER






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

LED LEGEND FOR TUNING PROCESS (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 LEGEND (BAT)

-  : BATTERY IS FULL CHARGED
-  : BATTERY IS LOW
-  : BATTERY IS EMPTY

LED LEGEND (MENU)

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

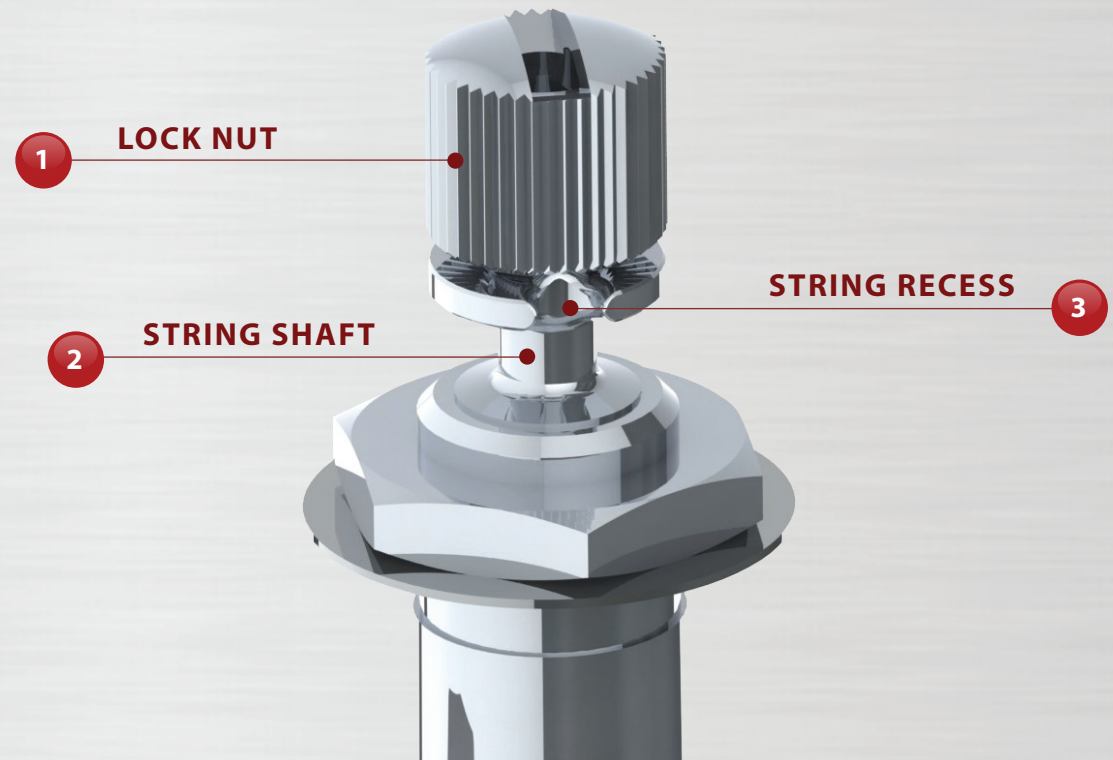
BLINKING MENU LED

-  : ACOUSTIC GUITAR
-  : ELECTRIC GUITAR

GETTING STARTED  **STRING YOUR GUITAR**

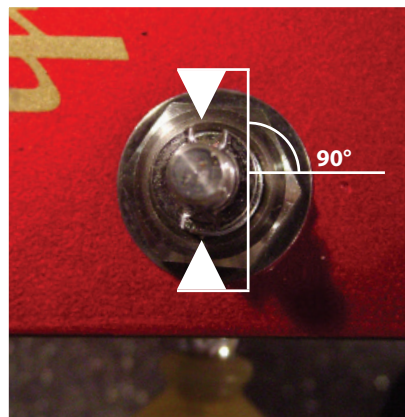
GETTING STARTED >>> HOW TO USE THE STRING SHAFT WITH SURFACE LOCKING MECHANISM

- 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.



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 LONGITUDINAL 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

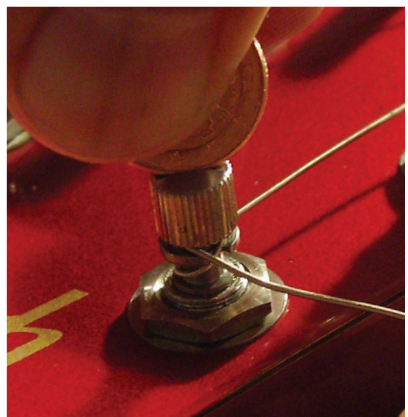


GETTING STARTED >>> HOW TO USE THE STRING SHAFT

5



TIGHTEN THE LOCK NUT ALL THE WAY DOWN WITH HELP OF A SMALL COIN. THE STRING MUST ENCIRCLE THE STRING SHAFT COMPLETELY.



6



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

7



USE STRING UP MODE
SEE PAGE 16

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

GETTING STARTED HOW TO TUNE/ADDITIONAL INFORMATION

RE-TUNING

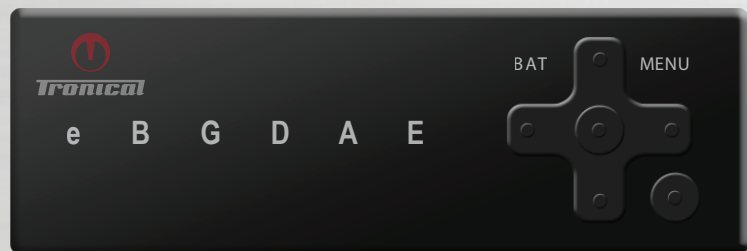
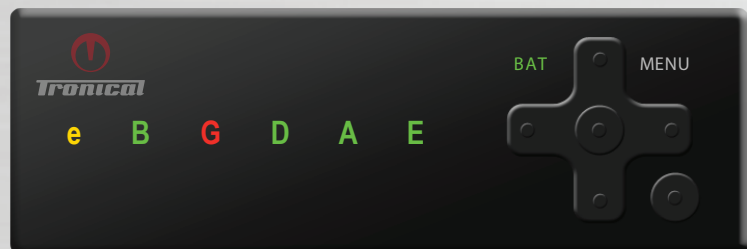
- 1 FOR RETUNING, STRUM ALL STRINGS IN THE MANNER YOU DID IN CALIBRATION MODE (**PAGE 28**) (STRUM BY THUMB, CLOSE TO THE NECK JOINT (SOUND HOLE), 1 STRUM = ALL STRINGS WITHIN 1 SEC.)
- 2 WAIT 3-5 SECONDS BETWEEN TWO STRUMS
- 3 AFTER STRUMMING, MUTE STRINGS THAT ARE ALREADY IN TUNE (GREEN LED ON TUNE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

CHANGING 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.

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**).

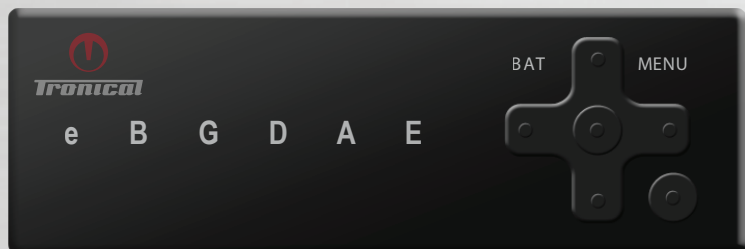
-  : STRING IN TUNE
-  : STRING NOT IN TUNE (PICK STRING)
-  : FREQUENCY OUT OF PITCH WINDOW
-  : RESPECTIVE ROBOHEAD IS IN MOVEMENT
-  : FREQUENCY MEASUREMENT IN PROGRESS
-  : INTERFERENCE BETWEEN LOWER AND HIGHER STRINGS
-  MUTE LOWER STRINGS THAT ARE IN TUNE AND STRUM HIGHER STRINGS AGAIN.



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 LEGEND 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 LEDS

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

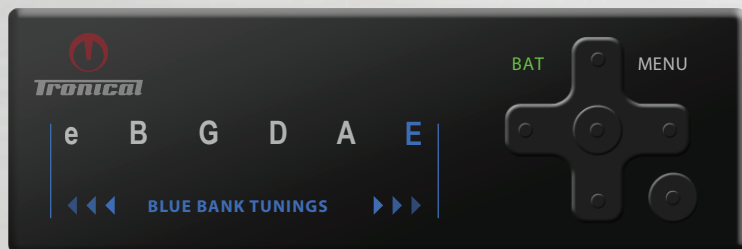
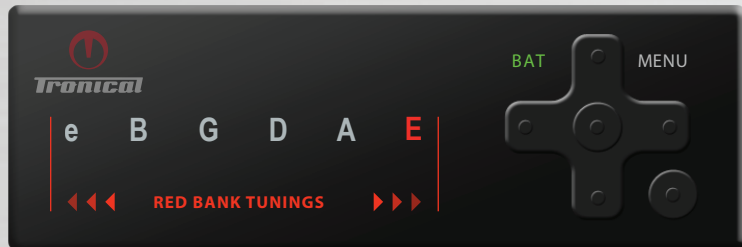
SINGLE-CLICK ON "ENTER" FOR MULTI-STRING MODE OR PUSH & HOLD "ENTER" FOR SINGLE-STRING MODE

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 SWITCHES 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	E2	A2	D3	G3	B3	E4
A	D2	A2	D3	G3	A3	D4
D	D2	G2	C3	F3	A3	D4
G	D2	A2	D3	G3	B3	E4
B	E♭2	A♭2	D♭3	G♭3	B♭3	E♭4
e	D2	A2	D3	G3	B3	D4

THE GREEN BANK

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

THE BLUE BANK

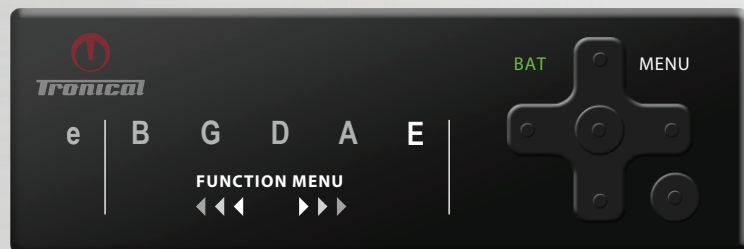
	E6 th	A5 th	D4 th	G3 rd	B2 nd	e1 st
E	E2	A2	D3	G3	B3	E4
A	E2	A2	D3	G3	B3	E4
D	E2	A2	D3	G3	B3	E4
G	E2	A2	D3	G3	B3	E4
B	E2	A2	D3	G3	B3	E4
e	E2	A2	D3	G3	B3	E4



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 INDICATES 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 **STRING UP AND DOWN MODE**

FOR RESTRINGING YOUR 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 **FUNCTION MENU** PRESS AND HOLD THE "UP" BUTTON UNTIL MENU LED INDICATES WHITE.

SELECT WHITE "E"-LED AND CONFIRM WITH "ENTER". THE MENU LED SWITCHES OFF, THE "E" SHINES 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 **FUNCTION MENU**.



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.

FUNCTION MENU >>> A CUSTOM TUNING



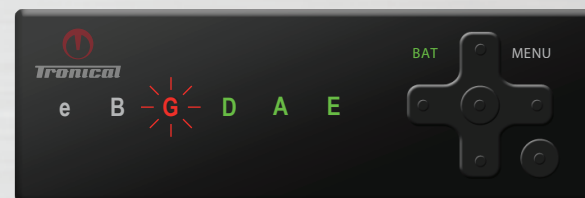
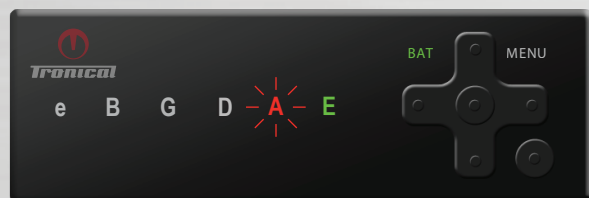
TUNE YOUR GUITAR MANUALLY TO ANY TUNING THAT YOU WISH TO SAVE ON A PRESET POSITION (BLUE BANK)

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 SHINES 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 BY INDICATING QUICK YELLOW FLASHING "E"-LED. UPON COMPLETION THE "E"-LED WILL INDICATE SOLID GREEN.

MUTE THE "E"-STRING AND PROCEED WITH THE "A"-STRING IN THE SAME MANNER AND SO FORTH UNTIL ALL STRINGS ARE INDICATING **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 LEDS WILL FLASH UP GREEN TWO TIMES FOR CONFIRMATION.

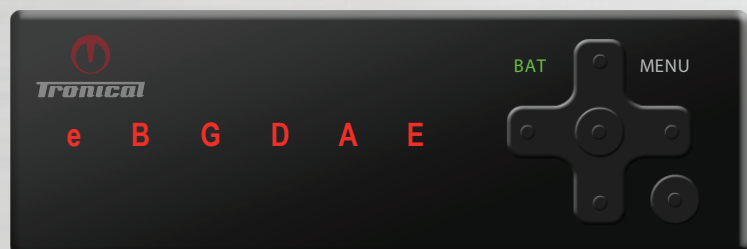
THE SYSTEM SWITCHES BACK TO **FUNCTION MENU** AUTOMATICALLY. THE MENU LED INDICATES WHITE.

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 INDICATES 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 WHICH IS INDICATED BY A FLASHING YELLOW LED OF RESPECTIVE STRING. UPON COMPLETION THE RESPECTIVE LED INDICATES GREEN AND ALL OTHERS INDICATE 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 18.

**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 INDICATES WHITE. USE "LEFT/RIGHT" BUTTON TO SELECT LED-"B" AND PRESS "ENTER".

A FULLY CHARGED BATTERY DISPLAYS ALL LEDS AS SHOWN TO THE LEFT.



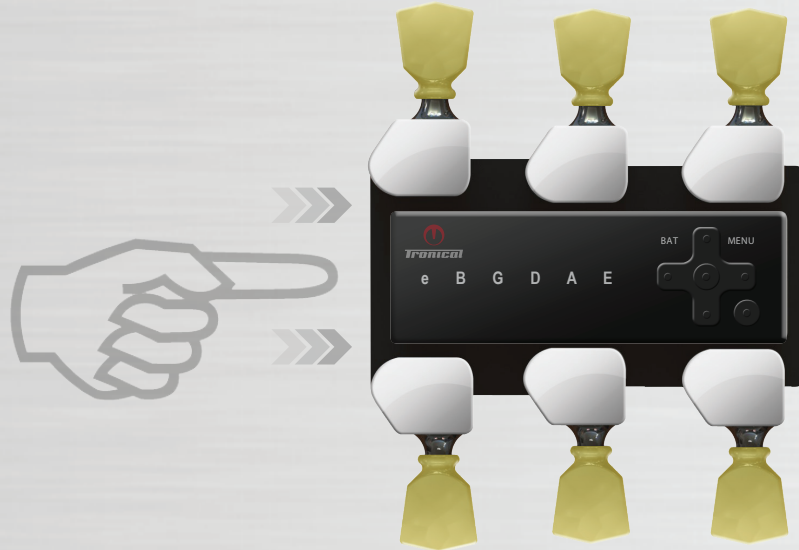
IF THE BATTERY IS LOW, THE ROBOHEADS' POWER WILL DECREASE. IF ONLY TWO RED LEDS (A & E) ARE DISPLAYED, CHARGE THE BATTERY IMMEDIATELY.

Min-ETune™

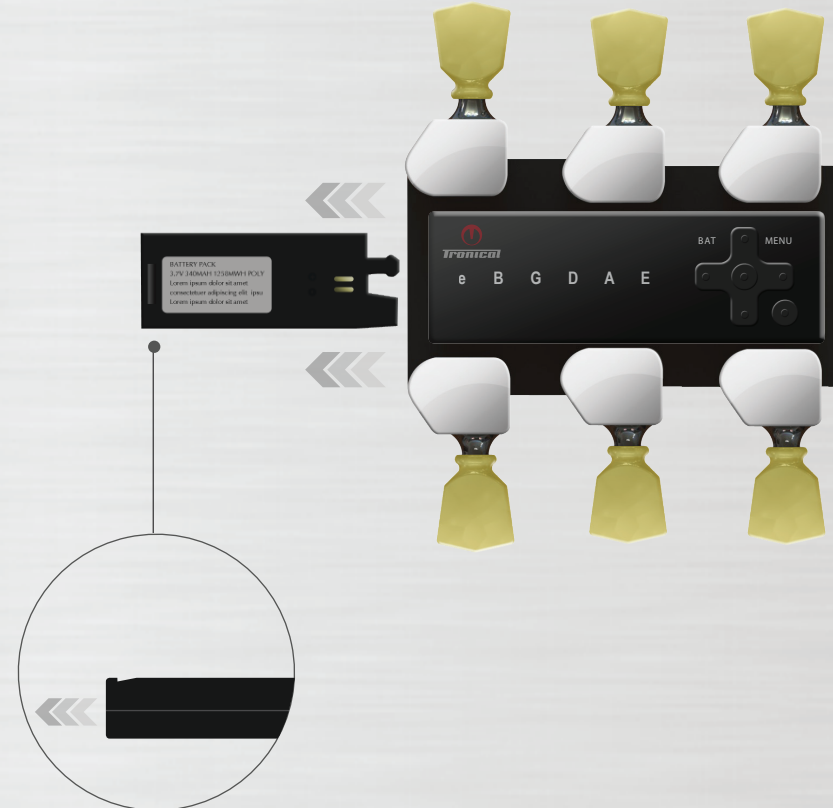


REPLACE BATTERY/CHARGE BATTERY

1 PRESS ON THE BATTERY TO RELEASE.



2 PULL OUT 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 WHEN LED BAT INDICATES 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 Min-ETune™.

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 Min-ETune™ since it contains small parts that could become detached and create a choking hazard.

BATTERY INFORMATION:

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).

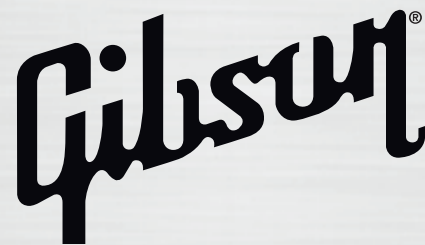
RECYCLING THE BATTERY:

The battery in your Min-ETune™ 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.





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