TRONICAL TUNE
PUSH. STRUM. TUNED. ROCK!

MANUAL
V 2.12
# TRONICAL TUNE - INDEX

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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

LED EXPLANATION DURING THE TUNING (e-E)
- **Green**: STRING IN TUNE
- **Red**: STRING NOT IN TUNE (PICK STRING)
- **Purple**: FREQUENCY OUT OF PITCH WINDOW
- **Blue**: RESPECTIVE ROBOHEAD IS IN MOVEMENT
- **Yellow**: FREQUENCY MEASUREMENT IN PROGRESS
- **White**: INTERFERENCE BETWEEN LOWER AND HIGHER STRINGS

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

LED EXPLANATION (BAT)
- **Green**: BATTERY FULLY CHARGED
- **Yellow**: BATTERY IS LOW
- **Red**: BATTERY IS EMPTY

LED EXPLANATION (MENU)
- **Blue**: TUNING IS ACTIVE
- **Light Blue**: CONFIGURATION MENU
- **White**: FUNCTION MENU
- **Yellow**: SYSTEM CONFIGURATION

BLINKING MENU LED
- **Red**: ACOUSTIC GUITAR
- **Green**: ELECTRIC GUITAR

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

INSTALL THE SYSTEM TO THE GUITAR

NOTE: DO NOT USE ANY TOOLS TO FIX THE LOCK NUT AND DO NOT OVER TIGHTEN AS YOU MAY CAUSE DAMAGE TO THE GEAR WHEELS

USE ONLY SUPPLIED WRENCH OR TORQUE WRENCH TO TIGHTEN THE LOCK NUT (MAX. 1NM TORQUE)
GETTING STARTED  » » INSTALL THE SYSTEM TO THE GUITAR

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

2. TAKE THE ROBOHEADS OUT OFF THE CONTACTING PCB.


4. 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.

5. USE THE WRENCH WHICH COMES WITH THE SET TO SCREW TIGHT THE HEX NUTS OF THE ROBOHEADS.

6. NOW TRONICAL TUNE IS READY TO STRING UP YOUR GUITAR.
GETTING STARTED  STRING YOUR GUITAR

MAX. RECOMMENDED 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

**NOTE:** DO NOT USE ANY TOOLS TO FIX THE LOCK NUT AND DO NOT OVER TIGHTEN AS YOU MAY CAUSE DAMAGE TO THE GEAR WHEELS

USE ONLY SUPPLIED WRENCH OR TORQUE WRENCH TO TIGHTEN THE LOCK NUT (MAX. 1NM TORQUE)

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.

NOTE: DO NOT USE ANY TOOLS TO FIX THE LOCK NUT AND DO NOT OVER TIGHTEN AS YOU MAY CAUSE DAMAGE TO THE GEAR WHEELS.
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 22)

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

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

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**
ACHTUNG: KEIN WERKZEUG BENUTZEN, DA SONST DIE ZAHRÄDER DER MECHANIKEN BESCHÄDIGT WERDEN KÖNNEN. GGF. 1 CENT STÜCK VERWENDEN UND GANZ LEICHT FESTZEIEHEN. (MAX. 1NM DREHMOMENT)

USE STRING UP MODE
SEE PAGE 22
PLEASE NOTE THE BASS SIDE ROBOHEADS TURN IN THE OPPOSITE DIRECTION FROM USUAL. THEY NOW TURN CLOCKWISE TO SHARPEN AND COUNTERCLOCKWISE TO FLATTEN.
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 CONTROLLER) AND STRUM THE NOT TUNED STRINGS ONLY.

CHANGE TUNING

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.
1) PERFORMANCE UNDER FOLLOWING CONDITIONS

* FOLLOW THE MANUAL FROM PAGE 3 TO PAGE 14!!
* 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)

<table>
<thead>
<tr>
<th>TUNING TIME</th>
<th>SINGLE-STRING MODE</th>
<th>MIN</th>
<th>NOM</th>
<th>MAX</th>
<th>UNIT</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>5</td>
<td>10</td>
<td>sec per string</td>
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<tr>
<td></td>
<td>MULTI-STRING MODE</td>
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<td>10</td>
<td>20</td>
<td>sec all strings</td>
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<table>
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<tr>
<th>NUMBER OF STRUMS</th>
<th>SINGLE-STRING MODE</th>
<th>MIN</th>
<th>NOM</th>
<th>MAX</th>
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<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>strums per string</td>
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<tr>
<td></td>
<td>MULTI-STRING MODE</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>strums all strings</td>
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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 4 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.
### The Red Bank

<table>
<thead>
<tr>
<th>Tuning</th>
<th>E</th>
<th>A</th>
<th>D</th>
<th>G</th>
<th>B</th>
<th>E</th>
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<tr>
<td>Standard</td>
<td>E2 A2</td>
<td>D3 G3</td>
<td>B3 E4</td>
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<tr>
<td>DADGAD</td>
<td>D2 A2</td>
<td>D3 G3</td>
<td>A3 D4</td>
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<tr>
<td>Low D</td>
<td>D2 G2</td>
<td>C3 F3</td>
<td>A3 D4</td>
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<tr>
<td>Drop-D</td>
<td>D2 A2</td>
<td>D3 G3</td>
<td>B3 E4</td>
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<td>Eb</td>
<td>Eb2 A2</td>
<td>D3 G3</td>
<td>B3 E4</td>
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<td>Double Drop-D</td>
<td>D2 A2</td>
<td>D3 G3</td>
<td>B3 D4</td>
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### The Green Bank

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<th>D</th>
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<th>B</th>
<th>E</th>
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<tr>
<td>Open E</td>
<td>E2 B2</td>
<td>E3 G#3</td>
<td>B3 E4</td>
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<tr>
<td>Open A</td>
<td>E2 A2</td>
<td>E3 A3</td>
<td>C#4 E4</td>
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<tr>
<td>Open D</td>
<td>D2 A2</td>
<td>D3 F#3</td>
<td>A3 D4</td>
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<tr>
<td>Open G</td>
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<td>D3 G3</td>
<td>B3 D4</td>
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<tr>
<td>Dobro</td>
<td>G2 B2</td>
<td>D3 G3</td>
<td>B3 D4</td>
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<tr>
<td>All 4th</td>
<td>E2 A2</td>
<td>D3 G3</td>
<td>C4 F4</td>
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### The Blue Bank

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<th>Tuning</th>
<th>E</th>
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<th>D</th>
<th>G</th>
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<tr>
<td>User-Defined 01</td>
<td>E2 A2</td>
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<td>User-Defined 02</td>
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<td>User-Defined 06</td>
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<td>D3 G3</td>
<td>B3 E4</td>
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The default for any tuning in the Blue Bank is Standard Tuning. To save User-Defined tunings, see “Function Menu - Custom Tuning.”
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  ➤  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 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.
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.
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  ➔ ➔  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 23-24.
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.

EXAMPLE: LED’S FLASH THREE TIMES

FLASH: 1

FLASH: 2

FLASH: 3

VERSION: 160
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
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  ➤ ➤  E  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.

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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 40.)

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.
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:

<table>
<thead>
<tr>
<th></th>
<th>B</th>
<th>G</th>
<th>D</th>
<th>A</th>
<th>E</th>
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<td>+/-</td>
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</tbody>
</table>
| 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

ROBOHEAD DELAY

SET THE START-DELAY OF THE ROBOHEADS.

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.

EXAMPLE: MAX DELAY
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

- **E**
  - RESET ALL CUSTOM TUNINGS

- **A**
  - FACTORY RESET (RESET ALL DATA EXCEPT OF CUSTOMER TUNING DATA)
CONFIGURATION MENU ➔ ROBOHEAD SPEED

SETS THE SPEED OF THE ROBOHEADS FOR ALL TUNING MODES.

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).

EXAMPLE: HIGHEST SPEED 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).


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.
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
TRONICAL TUNE HAS A SUPERIOR DYNAMIC RANGE TO SENSE THE
SOLID-BORNE SOUND OF YOUR INSTRUMENT (>130DB). THIS IS
ACQUIRED BY A PIEZO TRANSUDER, 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 PLU-
CKED (STRING LED IS NOT GETTING YELLOW, STRING IS NOT TUNED)
OR SIGNAL IS FAADING 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.

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SYSTEM CONFIGURATION  ➤➤  GUITAR TYPE

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.

GREEN BLINKING “E” LED : E-GUITAR

GREEN “E” & BLUE “A” BLINKING LED’S: ACOUSTIC GUITAR
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 WERE 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.

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

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

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.

GREEN BLINKING “E” LED: SINGLE CLICK (DEFAULT)

GREEN “E” & BLUE “A” BLINKING LED’S: DOUBLE CLICK

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TRONICAL TUNE REPLACEMENT BATTERY / CHARGE BATTERY
TRONICAL TUNE ➤ REPLACE 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 latest when LED bat is shining red.

**LI-POLYMER CHARGER**

**INPUT:** AC100-240V 50/60HZ
**OUTPUT:** 4.2V ± 300mA
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.