R-BAT*plus* REFERENCE GUIDE

Part #: UPT-RBAT-002 CAGE #:3EV52   FOR USE ON H-60M Main Rotor Blades Only!

290   **210**

MRB

RBAT Tool ⟶   Nickel Strip

Measurement Locations
Align outside of RBAT tool with edge of nickel strip at Station 290 and 210 on leading edge MRBs. If a protective "taco" patch is located at 210 do not measure.

On/Off Switch

Power On

Charge Port

Measurement/ Location Button
- Press and hold for 3 seconds to enter Calibration mode
- Single quick click for outboard 290 "**-ob-**" measurement
- Two quick clicks for inboard 210 **"-Ib-"** measurement location

Press Against Main Rotor Blade Leading Edge at STATION 290

NICKEL THICKNESS IN MILS

Press to Measure & Select Location

Green 2 Full Charge

Excellent Good Thin Charging

UPT Cage Code: 3EV52

P/N: UPT-RBAT-001A

R-BAT ROTOR BLADE ANALYSIS TOOL

Measurement Screen
- **"-ob-" flashing:** Ready to make 290 (-ob-) measurement location
- **"-ob-" steady:** Measuring at 290 (-ob-) location
- **"-ib-" flashing:** Ready to make 210 (-ob-) measurement location
- **"-ib-" steady:** Measuring at 210 (-Ib-) location
- **"cAL" flashing:** Unit is ready for calibration mode
- **"cAL" steady on:** Unit is calibrating
- **"good":** Calibration was completed successfully
- **"redo":** Measurement greater than 0.040" or less than 0.001". Retest blade. If no change, recalibrate unit
- **"batt"** Battery is low recharge before continuing
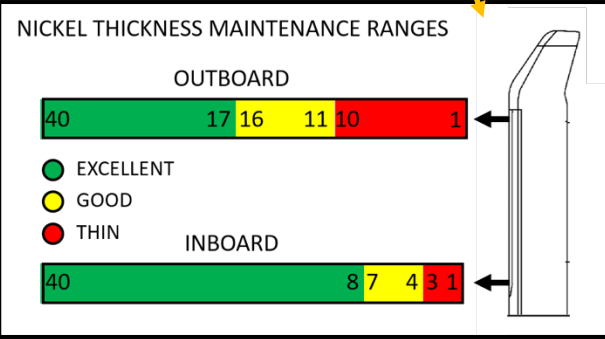- **Displayed number is thickness of nickel in mils (0.00X") Range is 1-40 mils**

Charging Port
Uses standard USB micro cable.
Charging Time: Up to 4 hours

Green -Yellow -Red LEDs
Blinks battery charge level on start-up and in sleep mode.
Shows nickel measurement rating for maintenance
Note: Maintenance ranges are listed below

Charging Light
On during charging. Will not light when battery is fully charged

NICKEL THICKNESS MAINTENANCE RANGES

OUTBOARD

40	17	16	11	10	1

- 🟢 EXCELLENT
- 🟡 GOOD
- 🔴 THIN

INBOARD

40		8	7	4	3	1

System Kit
Contains RBAT, Tablet, Charger, Calibration Tool, & Instruction Guide

Operating Instruction Guide
Follow these instructions for R-BAT usage

UH-60M Blades Only

Press Against Main Rotor Blade Leading Edge at STATION 210

Instructions
1) Charge using USB
2) Power On
3) After LEDs complete flashing cycle press "Measure" button once to measure 290 location or twice to measure 210.
4) LEDs indicate Nickel Strip health:
GREEN - Excellent
YELLOW - Good
RED - Nickel strip is very thin and will need replacement soon. Contact UHPO RBEP team for further instructions.

RBAT Calibration Instructions
1. Power on RBAT.
2. Set RBAT in measurement environment for 5 min.
3. Press and hold **Measurement Button** for 3 seconds. "**cAL**" will begin to flash on screen.
4. Place R-BAT CAL tool in measurement position and press **Measurement Button** once. Steady "**cAL**" will be displayed on screen.
5. After 1-2 min. "**good**" will appear on screen.
6. Remove CAL tool to begin measurements.
Note: If "**good**" does not appear, contact RBEP team

CAL

For more information call 877-552-8744 or email info@rbepteam.org

UPT

UHPO RBEP ROTOR BLADE EROSION PREVENTION
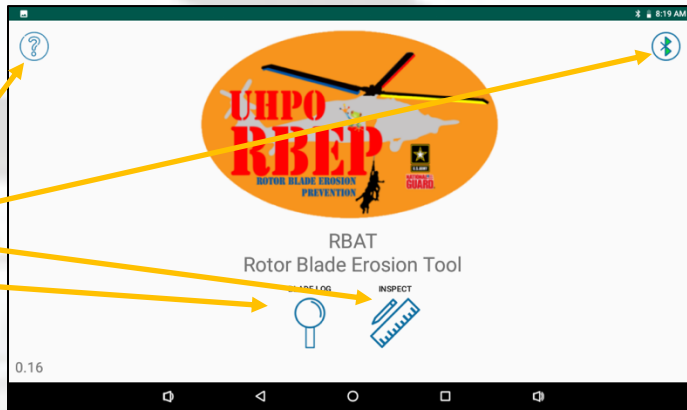
R-BAT*plus* REFERENCE GUIDE

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Home Screen
Buttons for:
- Help
- Bluetooth
- Inspection
- Blade Log

On/Off Switch

VOL UP
VOL DOWN

POWER

RBAT
Rotor Blade Erosion Tool

BLADE LOG   INSPECT

0.16
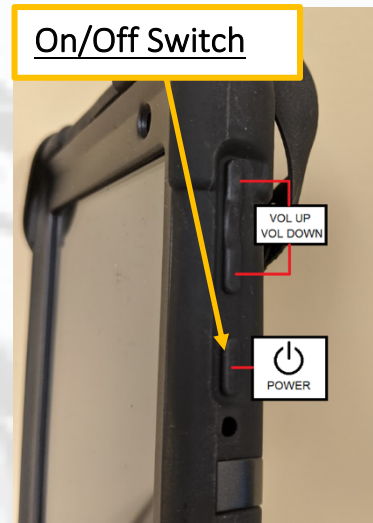
<u>Help</u> – Access to reference guide, training videos and troubleshooting.
<u>Bluetooth</u> – Green indicates that communication with the R-BAT. If the Bluetooth symbol is red, cycle the R-BAT unit power until the symbol turns to green, or enter the tablet settings to ensure that Bluetooth communication is turned on.
<u>Inspection</u> – Data entry for blade inspections and nickel strip measurements.
<u>Blade Log</u> – Search and review previous measurements and inspection data.

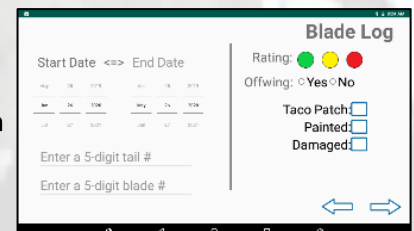**Charge Port**

Inspection Screens

Begin Inspection Survey
○Offwing   ○On Aircraft

Begin Inspection Survey

Blade Selection
20111
Blade #: Enter a 5-digit blade #
Color: ⬛ 🟦 🟥 🟨

Blade Selection

Pre-Inspection
20111 / 30111
Nickel Strip Damage:☐
Crack @ 290:☐
Spanwise Crack:☐
Top Surface Erosion:☐
Thumbnail Damage:☐
Taco Patch @ 210:☐
Paint:☐

Pre-Inspection

Measure
20111 / 30111
☐ ✕ ✓   ☐ ✕ ✓
OUTBOARD   INBOARD

Measure

Review
20111
🟥 30111   23 6   Outboard Inboard
🟨 30112   10 7   Outboard Inboard
⬛ 30113   23 2   Outboard Inboard
🟦 30114   17 5

Review

**Reference Guide
User Guide
Reference Guide
Troubleshooting**

Blade Log Screens

Blade Search
Blade Log
Start Date <=> End Date
Rating: 🟢 🟡 🔴
Offwing: ○Yes ○No
Taco Patch:☐
Painted:☐
Damaged:☐
Enter a 5-digit tail #
Enter a 5-digit blade #

Blade Results
Search Results
Date   Tail #
07May20 14:13:18   20111
05May20 16:01:20   20111
05May20 14:46:12   20111
05May20 14:38:56   20111
01May20 10:53:37   20111

Survey
20111
07May20 14:13:18
🟥 30111   3 16   Outboard Inboard
🟦 30112   22 14   Outboard Inboard
🟨 30113   23 7
⬛

For more information call 877-552-8744 or email info@rbepteam.org

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