



AlcoHAWK[®] Elite

Owner's Manual

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INTRODUCTION

Intended Use

This Breath Alcohol Tester is intended to measure alcohol in human breath. Readings obtained by this device are used in the diagnosis of alcohol intoxication. The accuracy of this device has been established at a Blood Alcohol Concentration (BAC) of 0.008 and 0.032. Accuracy at a BAC greater than .032 has not been established.

Overview

This tester provides a digital reading of a person's approximate BAC in seconds. The AlcoHAWK® Elite is powered by a 9 volt battery that generally lasts between 100-200 tests when using an alkaline battery. Please read this entire manual before use.

Effects of Alcohol

Variations among people and other factors, such as altitude and air temperature, affect the degree of intoxication. Some people may become intoxicated at low BAC levels. A low BAC on a breath alcohol tester does not mean that a person's reaction times can respond to any emergency encountered. You should not drink alcohol and drive or use any machinery after consuming alcohol. There is no safe way to drive under the influence of alcohol. Even one drink can make you unsafe.

Calibration

It is very important to have the instrument calibrated as recommended in this owner's manual (see Verification and Calibration, pg. 9). Failure to do so may result in readings that are inaccurate.

EFFECTS OF ALCOHOL

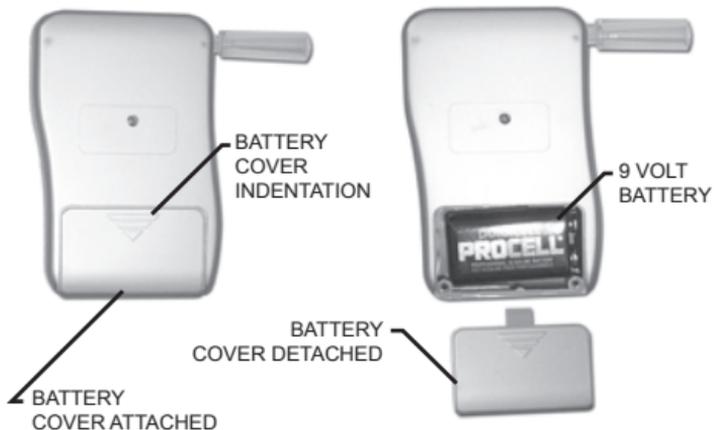
BAC	Dose-Specific Effects
0.020-0.039%	Generally no loss of coordination, slight euphoria or loss of shyness. Depressant effects are not apparent.
0.040-0.069%	General feeling of well-being, relaxation, lower inhibitions, sensation of warmth. Euphoria. Some minor impairment of reasoning and memory. Lowering of caution. Driving skills may be impaired.
0.070-0.099%	Slight impairment of balance, speech, vision, reaction time, and hearing. Euphoria. Judgment and self-control are reduced. Caution, reason and memory are impaired. Driving skills are always impaired.
0.100-0.129%	Significant impairment of motor coordination and loss of good judgment. Speech may be slurred. Balance, vision, reaction time and hearing will be impaired. Euphoria.
0.130-0.159%	Gross motor impairment and lack of physical control. Blurred vision and major loss of balance. Euphoria is reduced and dysphoria begins to appear.
0.160-0.249%	Anxiety and restlessness predominates. Nausea may appear. The drinker has the appearance of a "sloppy drunk."
0.250-0.299%	Needs assistance in walking. Total mental confusion. Dysphoria with nausea and some vomiting.
0.300-0.399%	Loss of consciousness.
0.400% +	Onset of coma, possible death due to respiratory arrest.

Bailey, William J., *Drug Use in American Society*, 3rd ed., Minneapolis: Burgess, 1993.

PREPARATION

Installing the Battery

Apply a small amount of pressure on the battery cover located on the back of the product. Push down and away from the product to release the cover. Install one 9 volt alkaline battery and slide cover back in place. See the following diagram.



Inserting a Mouthpiece

Insert a new mouthpiece firmly into the hole located on the top of the left side of the unit. A gap of approximately 1/2 cm will remain between the larger portion of the mouthpiece and the side of the unit. See diagram below.



COMPONENTS DIAGRAM



OPERATION



Operating Instructions

Wait **20 minutes** after you smoke, eat or drink before testing. Failure to wait 20 minutes can give wrong BAC readings and damage the sensor.

Step 1) Insert a **NEW MOUTHPIECE** each time you perform a test.

Step 2) If it has been more than 24 hours since the device was last used, **PRIME THE SENSOR** by blowing into the mouthpiece for 4 to 5 seconds before turning on the device.

Step 3) **PRESS** the **Power On/Off** button. A single beep will sound and the unit will display the temperature in Fahrenheit (F).

Note: If the unit reads a temperature below 50 F, "Cool" appears on the LCD display to warn the user that the temperature is lower than the suggested testing range. If the temperature is above 104 F, "Hot" appears on the LCD display to warn the user that the temperature at the time of testing is higher than the suggested testing range.

Step 4) After the temperature scan, **WAIT** until the **COUNTDOWN IS COMPLETE** and you hear a **SINGLE BEEP**. The unit will display "**RDY**" when the device is ready for use.

Note: The unit will restart the countdown at 10 if the sensor is not ready after the initial countdown from 60.

Note: The device will not shut off until a test is performed or until 15 seconds of non use elapses.

Step 5) Take a **DEEP BREATH AND BLOW STEADILY** (for at least 5 seconds) until a BEEP sounds to signal completion of the testing.

Note: The unit will display a 0.000 after approximately 1 – 2 seconds if a trace level of alcohol is not detected in the breath sample (i.e., at least 0.001% BAC).

Step 6) For more testing, wait one (1) minute and repeat steps 1 – 5.

READ THE RESULTS

The displayed result is an estimate of the test subject's BAC. A breath alcohol tester cannot determine the exact BAC in the blood of the test subject. Correlation between BrAC and BAC depends on many factors, such as temperature and health conditions. Therefore, only use this device as a tool to screen for the presence of alcohol.

Many people consider a 0.02% or greater a positive test for alcohol in “zero tolerance” screening. Most states have 0.08% as the legal BAC limit for tasks such as operating a motor vehicle. Some states prohibit driving commercial vehicles or any vessel with a 0.04% BAC or higher. Many states prosecute people for driving under the influence at any level.

ERROR MESSAGES

Error Message	Cause and Course Of Action
SNR	The sensor is not ready for testing. This can occur if the unit has not been used for several days and if the unit has not been primed. If the SNR message is displayed, press the Power On/Off button once to turn off the unit and follow the operating instructions again.

Error Message	Cause and Course Of Action
Sht	The user had a short exhale time during the test, which likely means the user did not exhale steadily and continuously for at least 5 seconds. Repeat test.
reP	The unit is signifying to repeat the test because the unit did not detect an even alcohol concentration in the breath sample. This can occur if the user varies the blowing force when performing a test or if the Exhaust Port (see Components Diagram) is obstructed. Repeat test.
H	The unit detected a very high alcohol concentration (above 0.400% BAC).
Err	The sensor has been damaged and will need to be returned for servicing. If this error message occurs more than two consecutive times, please contact Q3 Innovations for instructions to have your unit serviced.

PRECAUTIONS



1. After drinking, smoking and eating, users should wait at least 20 minutes before testing.
2. Avoid testing in strong winds, in a closed room with a heavy amount of smoke, or where alcohol is being consumed.
3. When the green light below PWR is blinking, replace the 9V alkaline battery.
4. Do not blow cigarette smoke, food or liquid into the unit.
5. Only use the unit in a temperature range of 10 - 40°C or 50 - 104°F.

Operation above or below this range may affect the results.

6. Do not leave the device connected to the AC/DC outlet when the unit is not being used.
7. Avoid testing in the presence of any liquids that contain any kind of alcohol or acetone. These substances may interfere with the results of the test.
8. Conditions that increase the amount of ketones on the breath, such as diabetes and low caloric intake, may cause a false positive test. (i.e., showing a non-zero reading despite not drinking alcohol)
9. Do not use this device as a tool to determine whether you or anyone else should operate any motor vehicle or machinery.
10. BAC changes over time depending on many factors. BAC at one time can differ from BAC a few minutes later.
11. You cannot use the results of this product in court.
12. Do not let yourself or anyone else drink and drive. Always use a designated driver when you or anyone else drinks alcohol.

SPECIFICATIONS

Housing	Shock resistant, molded plastic
Battery	9V Alkaline (included)
Battery Life	60-120 tests ¹
Sensor	Sensitive semi-conductor sensor
Blowing Time	5 seconds
Response Time	3-10 seconds ¹
Digital Display	4 Digits (0.000 % B.A.C.)
Operating Temp	10 - 40°C (50 - 104°F)
Detection Range	0.000 - 0.400% BAC (Blood Alcohol Content)
Air Sample	5 Second Deep Lung Sample
Calibration	Required periodically. Visit www.q3i.com .
Operation	Single Button
Warranty	1 Year Limited Warranty

1. Estimates, results may vary.

ACCESSORIES

Visit our online store at www.q3ats.com to purchase the following accessories.

- Mouthpieces
- Wall Adapter
- Mesh Carrying Bag
- Leather Carrying Pouch
- Hard Carrying Case

VERIFICATION AND CALIBRATION

Calibration of the AlcoHAWK® Elite occurs during manufacturing using advanced alcohol simulation equipment. The manufacturer passes known BAC levels through the sensor to set baseline values for testing. During testing, the unit compares users' breath samples to these baseline values. If the verification determines that the BAC is not consistent with actual BAC levels, a technician calibrates the unit. The accuracy of breath alcohol testers can fluctuate after six to twelve months, depending on frequency of use and operating conditions. **We recommend sending the unit in for calibration after 200 tests have been performed, or every six to twelve months if less than 200 tests have been performed.**

If the unit is providing inconsistent results, unusually high or low readings, or no readings at all, a professional needs to recalibrate the unit.

For recalibration or support, please visit www.q3i.com or call 888-399-1687. During recalibration, a technician will perform a diagnostic check on the unit and reset the baseline sensor values.

ONE-YEAR LIMITED WARRANTY

Q3 Innovations (Q3I) warrants this unit to be free from defects in workmanship or material (excluding calibration) under normal use for ONE (1) YEAR from the date of retail purchase by the original purchaser ("Warranty Period"). **The warranty covers parts and labor on covered repairs; software updates if applicable; and ground freight back to the customer (USA only). Except as provided above or applicable law, Q3I provides this product "as is."**

If a defect arises and Q3I receives a valid claim within the Warranty Period, at its option, Q3I will either (1) repair the product, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. When a refund is given, the return product to Q3I becomes Q3I's property. The warranty does not cover freight to Q3I. The warranty is void if anyone tampers with, maliciously damages, or physically abuses the unit.

This warranty is limited to the original consumer purchaser and is not transferable to, or enforceable by, any subsequent owner.

For warranty service during the Warranty Period, please follow the below instructions:

1. Call 888-399-1687 or email service@q3i.com to obtain an RMA number and shipping instructions. Return the unit postage paid, insured and in suitable packaging.
2. For your protection, obtain a proof of delivery receipt. Shipping costs are your responsibility.
3. You must enclose the following with the unit:
 - a. The completed RMA form (available at www.q3i.com/support.php)
 - b. Your name, complete return address and written description of the problem. (No PO Box please.)

- c. Your telephone number to reach you during normal business hours.
- d. A copy of your dated sales receipt or invoice.

DISCLAIMER

Q3I makes no warranties, expressed or implied, as to the ability of this unit to determine whether, or to the extent to which, a test subject's mental or physical functionality, or judgment, is impaired by blood alcohol including whether the test subject is intoxicated, under any definition of that word. Q3I expressly disclaims any liability for incidental, special, or consequential damages of any nature under any legal theory. Any act or failure to act based upon a reading from this product is at the test subject's or user's own risk. Q3I assumes no responsibility for consequences to users or test subjects who use this product and are later under the influence of alcohol or to have had their judgment or any mental or bodily function impaired by alcohol. Correlation between BrAC and BAC depends on many variables, such as temperature and health conditions of the test subject. A safe or low BAC reading does not mean that the test subject's physical or mental performance or judgment (including reaction times) can respond to any emergency encountered. A breath alcohol tester cannot determine the exact concentration of alcohol in the blood of a test subject.

Q3I does not warrant that the operation of the product will be error-free. Q3I is not responsible for any consequences arising from failure to follow instructions or relating to the product's use. This warranty does not apply: (a) to consequences caused by accident, abuse, tampering, misuse, flood, fire, earthquake or other external causes; (b) to consequences caused by operating the product outside the permitted or intended uses described by Q3I; (c) to consequences caused by service performed by anyone who is not a representative of Q3I or a Q3I Authorized Service Provider; or (d) to a product or part that has been modified to alter functionality or capability without the written permission of Q3I.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND THE

REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, STATUTORY, EXPRESS OR IMPLIED. AS PERMITTED BY APPLICABLE LAW, Q3I SPECIFICALLY DISCLAIMS ANY AND ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. IF Q3I CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES, THEN TO THE EXTENT PERMITTED BY LAW ALL SUCH WARRANTIES ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY AND TO THE REPAIR OR REPLACEMENT SERVICE AS DETERMINED BY Q3I IN ITS SOLE DISCRETION.

Q3I does not authorize any Q3I reseller, agent, or employee to make any modification, extension, or addition to this warranty. If anyone determines any terms to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, Q3I IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE; LOSS OF REVENUE OR INCOME; LOSS OF ACTUAL OR ANTICIPATED PROFITS (INCLUDING LOSS OF PROFITS FROM A CONTRACT); LOSS OF THE USE OF MONEY; LOSS OF ANTICIPATED SAVINGS; LOSS OF BUSINESS; LOSS OF OPPORTUNITY; LOSS OF GOODWILL, OR LOSS OF REPUTATION.

Some countries, states and provinces do not allow the exclusion or limitation of incidental or consequential damages or allow limitations on how long an implied warranty or condition may last, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by country, state or province. This limited warranty is governed by and construed under the laws of the country where the product was purchased.

DO NOT DRINK ALCOHOL AND DRIVE

**ALWAYS USE A DESIGNATED DRIVER
AFTER DRINKING ALCOHOL**

BE SAFE AND DRINK RESPONSIBLY



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