



AlcoHAWK  ***ABI***

Owner's Manual

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INTRODUCTION

Intended Use

This breath alcohol tester is intended to measure alcohol in human breath. Readings from this device are used to determine alcohol intoxication. The accuracy of this device has been proven at a Blood Alcohol Concentration (BAC) of 0.008 and 0.032. Accuracy at a BAC greater than .032 has not been established.

Overview

The AlcoHAWK® ABI is a breath alcohol tester intended to test for the presence of alcohol in human breath. The AlcoHAWK® ABI is powered by a 9 volt battery that generally lasts between 200-300 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. You should not drink alcohol and drive or use any machines after consuming alcohol. There is no safe way to drive under the influence of alcohol. Even one drink can make you unsafe.

BAC	Dose-Specific Effects
0.020-0.039% ¹	Generally no loss of coordination. Slight joy or loss of shyness. Depressant effects are not clear.
0.040-0.069%	General feelings of well-being, relaxation, shyness is reduced and sensation of warmth. Joy. 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. Joy. Judgment and self-control are reduced. Caution, reason and memory are impaired. Driving skills are always impaired.
0.100-0.129%	Major impairment of motor coordination and loss of good judgment. Speech may be slurred. Balance, vision, reaction time and hearing will be impaired. Joy.
0.130-0.159%	Gross motor impairment and lack of physical control. Blurred vision and major loss of balance. Joy reduced and state of feeling unwell begins to appear.
0.160-0.249%	Anxiety, restlessness predominates. Nausea may appear. Appearance of a "sloppy drunk."
0.250%-0.299%	Needs assistance in walking. Total mental confusion. State of feeling unwell with nausea and some vomiting.
0.300%-0.399%	Loss of consciousness.
0.400% +	Onset of coma. Possible death due to respiratory arrest. ²

¹ Some individual's may experience impairment at BAC levels at .03% or even lower.

² Death can occur at a lower BAC level in some individuals.

DO NOT DRINK ALCOHOL AND DRIVE

ALWAYS USE A DESIGNATED DRIVER AFTER DRINKING ALCOHOL

BE SAFE AND DRINK RESPONSIBLY

PREPARATION

Installing The Battery

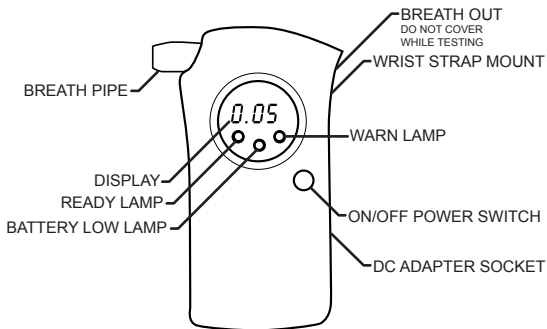
Apply a small amount of pressure on the battery cover located on the back of the unit and push down and away from the unit to release the cover. See the following diagram.



Inserting A Mouthpiece

Insert the mouthpiece cover firmly over the breath pipe. See Components Diagram (pg. 4).

COMPONENTS DIAGRAM



OPERATION



Operating Instructions

Wait 20 minutes after the subject smokes, eats or drinks before testing. Failure to wait 20 minutes can give inaccurate BAC readings and harm the sensor.

- Step 1)** Press the ON/OFF power switch. The unit will start to count down from 200 to 000 on the DISPLAY. This warm-up process prepares the sensor and circuit for testing.
- Step 2)** When you hear a BEEP and the green READY light comes on, take a deep breath, then blow steadily and continuously into the BREATH PIPE until you hear another BEEP. You will be blowing for up to 5 seconds. Your lips should be sealed around the mouthpiece while blowing. Be careful not to cover the BREATH OUT opening on the unit. If you don't blow within 30 seconds, the unit automatically displays "OFF". Press the ON/OFF power switch to turn the unit off and repeat step 1).
- Step 3)** After the red and green display lights blink for 4 seconds, the test result will be displayed by 3 digits for 15 seconds. This number is your estimated Blood Alcohol Concentration (%BAC).
- If the BAC reading is over 0.05%, the red WARN lamp will flash along with a BEEP sound.
 - If the BAC reading is over 0.40%, the display will read "HOT" and the red WARN lamp will flash along with a BEEP sound. This can also occur if a subject blows alcohol from their saliva into the tester.

- If you consumed very little alcohol, your actual concentration may be below 0.01%BAC (Blood Alcohol Concentration), and the reading may not be activated. However, the display will show 0.00%.

- If ErH is displayed, see the Error Messages section in this manual.

Step 4) Finally, the unit will display “OFF” for turn-off, along with a BEEP sound. Press the ON/OFF power switch to turn the unit off.

Step 5) For more testing, wait one (1) minute and repeat steps 1 – 4.

READ THE RESULTS

The result is an estimate of the subject's BAC. A breath alcohol tester cannot determine the exact BAC in the blood of the subject. Correlation between BrAC and BAC depends on many factors, such as temperature and health conditions. Only use this unit 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 individuals for driving under the influence at any level.

ERROR MESSAGES

Error Message	Cause and Course of Action
HOT	The unit detected a very high alcohol concentration (above 0.40% BAC). REPEAT TEST.
ErH	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. **Wait at least 20 minutes** after drinking, smoking or eating before testing.
2. Do not test in strong winds or in a closed room with smoke or alcohol present.
3. When the battery low light is glowing, replace the 9V alkaline battery.
4. Do not blow 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 unit 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 unit as a tool to determine whether you or anyone else should operate any motor vehicle or machinery.
10. Do not use this unit with an ignition interlock device or while inside a vehicle.
11. BAC changes over time depending on many factors. BAC at one time can differ from BAC a few minutes later.
12. You cannot use the results of this unit in court of law.
13. Do not let yourself or anyone else drink and drive. Always use a designated driver when you or anyone else drinks alcohol.

SPECIFICATIONS

Dimensions	4.72" x 2.36" x 1" (12 cm x 6 cm x 2.5 cm)
Weight	2.8 oz (80 g) without batteries; 4.4 oz (125 g) with batteries
Power Supply	9V alkaline battery
Battery Life	200-300 tests ¹
Sensor Technology	Sensitive semi-conductor sensor
Warm-UP Time	20 seconds ¹
Blowing Time	5 seconds
Recovery Time	60 seconds ¹
Digital Display	3 Digits (0.00% BAC)
Operating Temperature	10 - 40°C (50 - 104°F)
Detection Range	0.00 - 0.40% BAC
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
- 12 Volt DC Adapter
- Wall Adapter
- Soft Case
- Hard Case
- Wrist Strap

CALIBRATION

Calibration of the AlcoHAWK® ABI occurs during manufacturing using advanced alcohol simulation equipment. The manufacturer passing known alcohol concentrations 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.

If the unit is providing inconsistent results or unusually high or low readings, the unit may need calibration. **A technician should recalibrate this unit at least every six to twelve months. Monthly calibrations may be required if the unit is used daily.**

Please visit www.q3i.com or call 888-399-1687 for calibration or support.

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 buyer

("Warranty Period").

The warranty covers parts and labor on covered repairs and ground freight back to the customer (USA only). Except as provided above, 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 built from new or serviceable used parts and functionally equivalent to the original product, or (3) refund the purchase price of the product. If a refund is given, the returned product becomes Q3I's property. The warranty does not cover shipping to Q3I. The warranty is void if anyone tampers or abuses the unit.

This warranty is limited to the original consumer purchaser and can not be transferred to any other owner.

For warranty service please follow these instructions:

1. Call 888-399-1687 or email service@q3i.com to obtain an RMA number. Return the unit postage paid, insured and in proper box.
2. You should obtain a proof of delivery receipt. You must pay the cost for shipping the unit to us.
3. You must enclose the following with the unit:
 - a. The completed RMA form (available at www.q3i.com/support.php)
 - b. Your name, return address and description of the problem. (No PO Box)
 - c. Your phone number to reach you during the day.
 - d. A copy of your 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

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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.



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