

# BACTRACK<sup>®</sup>

BREATHALYZER



S75 PRO

OWNER'S  
MANUAL



## TABLE OF CONTENTS

This device is intended to measure alcohol in human breath. Measurements obtained by this device are used in the diagnosis of alcohol intoxication.

<b>Introduction</b> . . . . .	1
<b>Dose-specific Effects of Alcohol</b> . . .	4
<b>Preparation</b> . . . . .	6
<b>Components Diagram</b> . . . . .	6
<b>Operation</b> . . . . .	7
<b>Specifications</b> . . . . .	11
<b>Precautions</b> . . . . .	12
<b>Verification and Calibration</b> . . . . .	13
<b>One-Year Limited Warranty</b> . . . . .	14

**Track your B.A.C. – BACTRACK!**

## INTRODUCTION

The **BACTRACK® S75 Pro Breathalyzer** is a professional alcohol screening device, used for the detection of alcohol in the breath. The BACTRACK provides a digital result, indicating the approximate BAC (Blood Alcohol Content) of the test subject. The BACTRACK is powered by two AA batteries and is very easy to use. Simply turn on the unit and begin testing in a matter of seconds. However, before you begin testing, there are a few things you should know. Please take a moment to read your owner's manual in its entirety and familiarize yourself with the BACTRACK.

### **Alcohol and Its Effects on the Human Body**

Alcohol is absorbed from the mouth, throat, stomach and intestines into the bloodstream.

Alcohol ingested by the human body can be detected in the breath because of its presence in the bloodstream.

Alcohol cannot be digested, and it cannot be chemically changed in the bloodstream. As the blood flows through the lungs, alcohol in the bloodstream moves across the membranes of the lung's air sacs (alveoli) into the air. The concentration of the alcohol in the alveolar air is directly related to the concentration of the alcohol in the blood. As the alveolar air is exhaled, the alcohol in it can be detected by the breath alcohol testing device.

The alcohol concentration in the breath is related to that in the blood, and because of this, an individual's BAC can be determined by measuring alcohol in the breath. The ratio of breath alcohol to blood alcohol is generally estimated to be 2,100:1. Therefore, 2,100 milliliters (ml) of alveolar air will contain approximately the same amount of alcohol as 1 ml of blood.

## Alcohol is a Drug

Alcohol is the chemical (ethanol or ethyl alcohol) resulting from the fermentation of grapes or grain. Alcohol is absorbed directly into your bloodstream. From your bloodstream, the fluids in your body tissues absorb the alcohol. Your brain is made up of a large concentration of fluids and will absorb a large amount of any alcohol you drink. Your liver eliminates the absorbed alcohol at its own rate of time and nothing you eat or drink can speed up the process. Your liver does this by oxidizing the alcohol (converting it into water and carbon dioxide). Coffee, food or any other "cure" will not sober you up. Only time will do that.

## How does alcohol affect my body?

Alcohol is a depressant. It has a relaxing effect on the muscles in your body. The muscles of your eyes relax and lose focus. Your eyesight will become fuzzy and you may experience double vision. Brain activity is slowed. Your judgment, reflexes, and coordination are all negatively affected.

Some vision impairments that occur when you have been drinking include:

- Narrowing of your field of vision
- Reduction in your depth perception
- Decreased ability to see in darkness
- Increased sensitivity to glare and a longer time for your eyes to readjust from the glare

Some mental (brain) impairment can occur when you have been drinking, including:

- Reduced awareness of danger
- Becoming overly confident and reckless
- Difficulty in making decisions
- Reduction in balance
- Slowed reflexes
- Impaired judgment

## How does alcohol affect my driving?

We can't emphasize enough how dangerous it is for you to drink and drive. Your vision and your brain are the most important factors in driving safely. If you jeopardize either by drinking, and then you drive, you are likely to be involved in a serious or fatal collision.

From California Department of Motor Vehicles (<http://www.dmv.ca.gov>)

## DOSE-SPECIFIC EFFECTS OF ALCOHOL\*

BAC	Dose-Specific Effects
0.02-0.03%	Slight euphoria. Loss of shyness. Depressant effects are not apparent. Impairment possible in some individuals.
0.04-0.06%	Feeling of well-being, relaxation, lower inhibitions and sensation of warmth. Euphoria. Some minor impairment of reasoning and memory. <b>Lowering of caution. Driving skills may be impaired at this level of intoxication.</b>
0.07-0.09%	Slight impairment of balance, speech, vision, reaction time, and hearing. Euphoria. Judgment and self-control are reduced. Caution, reason and memory are impaired. <b>Driving skills are always impaired at this level of intoxication and higher.</b>
0.10-0.12%	Significant impairment of motor coordination and loss of good judgment. Speech may be slurred. Balance, vision, reaction time and hearing will be impaired. Euphoria.

BAC	Dose-Specific Effects
0.13-0.15%	Gross motor impairment and lack of physical control. Blurred vision and major loss of balance. Euphoria is reduced and dysphoria (anxiety, restlessness) is beginning to appear.
0.16-0.20%	Dysphoria predominates. Nausea may appear.
0.25%	Needs assistance in walking. Total mental confusion. Dysphoria with nausea and some vomiting.
0.30%	Loss of consciousness.
0.40% and up	Onset of coma. Possible death due to respiratory arrest**.

\* The effects of alcohol intoxication are greatly influenced by individual variations among users. Some users will be intoxicated at a much lower BAC than shown above.

\*\*Death can occur at a lower BAC in some individuals.

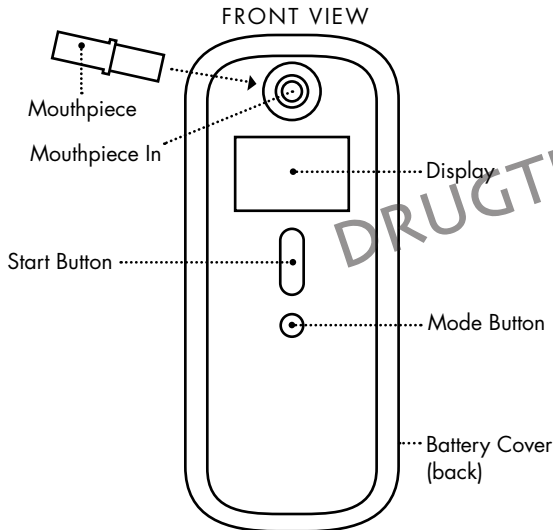
The generally accepted legal standard for alcohol intoxication in the United States is 0.08%. However, your driving skills can be impaired at a level of 0.04% or lower. It is never safe to drink any amount of alcohol and drive.

## PREPARATION

### Installing the Battery

Install two AA batteries in the battery compartment.

## COMPONENTS DIAGRAM



6

## OPERATION

### IMPORTANT!



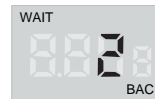
Test subjects should wait 20 minutes after eating, drinking, or smoking before blowing into the BACTRACK Breathalyzer. Failure to wait 20 minutes can provide inaccurate test results and damage the sensor.



**STEP 1:** Insert a mouthpiece into the Mouthpiece In slot.

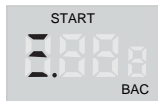


**STEP 2:** Press the start button. The BACTRACK will quickly display the total number of tests performed, and then begin a countdown.



**STEP 3:** When the countdown approaches 2, begin to inhale a deep breath.

7

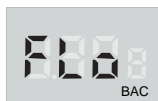


**STEP 4:** When the countdown reaches zero, "START" will flash and the screen will display three lines. Blow through the mouthpiece for five seconds until there is a double beep sound.



**STEP 5:** Once the sensor has analyzed the breath sample, the estimated BAC value is displayed.

## Error Notification



If a user does not blow a sufficient breath sample, the LCD will display "FlO". Press start to restart the countdown cycle and retest.



If there is no breath sample blown within 15 seconds, the LCD will display "Out". Press start to restart the countdown cycle and retest.



If the unit is powered on outside of the acceptable temperature range (0-40 °C or 32-104 °F) the unit will display Out°F and testing cannot be performed.



If the battery indicator display is empty, install two new alkaline AA batteries.

8

## Advanced Menu Options

The BACTRACK offers several user-adjustable features through Menu Mode. To enter Menu Mode, turn on the BACTRACK and during the countdown hold MODE for 5 seconds. To move between Menu Mode options, press MODE.



### Units of Measure

By default, the BACTRACK will display test results in %BAC, which is the standard in North America and in many other regions.

To change to a different unit of measure, press START. You can select Promille (0/00) or mg/L as alternate units of measure.



### Audible Warnings

By default, the BACTRACK does not sound an audible warning after a specific %BAC result. To set an audible warning after a specific %BAC test result, press START to cycle through %BAC values.



### Blow Time

The default blow time is 5 seconds. A longer blowing time generally provides a deep lung air sample and a more accurate test result. To adjust the blow time, press START.

9



### Flow Detection Settings

Use this option to adjust how hard a user is required to blow. Press Start to change the settings.



#### *Low level flow detection*

This is the default setting for the unit.



#### *High level flow detection*

Press start to change to the high level flow setting.

This level requires a stronger breath by the user and is recommended if previous test attempts have been unsuccessful.



#### *User activated test mode*

Press Start again to change to the User activated test mode. When testing in this mode, the operator must press Start during a breath sample to activate the pump and perform a test.

## SPECIFICATIONS

Dimensions	2.3 x 4.8 x 1 inches (5.8 x 12.2 x 2.5 cm)
Weight	4.4 oz (125 g) with mouthpiece and batteries
Sensor Technology	Fuel cell sensor technology
Detection Range	0.000 – 0.400 %BAC
Test Count	Displays total number of tests performed
Power Supply	Two AA alkaline batteries, included
Battery Life	Approximately 1500 tests
Warm Up Time	10-20 seconds
Response Time	10 seconds
Sensor Accuracy	+/- 0.005 %BAC @ 0.1 %BAC
Operating Temperature	32-104 °F (0-40 °C)

## PRECAUTIONS

1. Wait at least 20 minutes after drinking, eating or smoking before testing. Not observing this waiting period can cause inaccurate readings and damage the sensor.
2. Do not blow smoke, food, or liquids into the BACTRACK as this will damage the sensor.
3. Do not test in areas with strong winds, smoke, or in an area where a large amount of alcohol is being consumed.
4. Replace the two AA batteries when the battery indicator icon reaches one bar.
5. Send your tester in for periodic calibration service as required. (See calibration).
6. The BACTRACK Breathalyzer is designed to be used in a temperature range of 32-104 °F (0-40 °C).
7. Avoid testing in the presence of any substances that contain methyl alcohol, isopropyl alcohol or acetone. These substances may interfere with the results of the test.
8. You cannot use the results of this product in court.
9. Do not use the BACTRACK as a tool to determine whether you should operate a motor vehicle or equipment, or perform any other dangerous act.
10. Do not drink and drive. Always have a designated driver when alcohol is being consumed.

## VERIFICATION AND CALIBRATION

The BACTRACK is calibrated during manufacture using advanced alcohol simulation equipment. Known alcohol concentrations are passed through the sensor to set baseline values for testing. During testing, the unit compares users' breath samples to these baseline values.

The accuracy of breath alcohol testers can fluctuate after six to twelve months of normal use, depending on the number of tests performed and operating conditions.

If this product is providing inconsistent test results, is not providing any test results, or provides unusually high or low test results, the product should be recalibrated immediately by a trained professional.

The product should be recalibrated at least every six to twelve months. If the product is used every day, it may need to be recalibrated as frequently as every month.

### Calibration Instructions

Please visit [www.bactrack.com](http://www.bactrack.com) or call 877-334-6876 for information on how to get your BACTRACK Breathalyzer recalibrated.

During recalibration, a professional technician will reset the sensor baseline values and also perform a full diagnostic check to ensure the accuracy and reliability of the product.

## ONE-YEAR LIMITED WARRANTY

KHN Solutions' warranty obligations for this product are limited to the following:

KHN Solutions warrants this product against defects in materials and workmanship under normal use for a period of ONE (1) YEAR from the date of retail purchase by the original end-user purchaser ("Warranty Period"). Except as provided in the preceding sentence or applicable law, KHN Solutions provides this product "as is". If a defect arises and a valid claim is received by KHN Solutions within the Warranty Period, at its option, KHN Solutions 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 product for which the refund is provided must be returned to KHN Solutions and becomes KHN Solutions' property. This warranty is limited to the original end-user purchaser and is not transferable to, or enforceable by, any subsequent owner.

### Exclusions, Limitations, and Disclaimers

KHN Solutions makes no warranties, express or implied, as to the ability of this product to determine whether, or the extent to which, a test subject's mental or physical functioning, or judgment, may be impaired by blood alcohol including whether the

test subject is intoxicated under any definition of that word. KHN Solutions expressly disclaims any liability for direct, indirect, incidental, special, or consequential damages of any nature under any legal theory. Any act or failure to act based on a reading from this product shall be at the test subject's or user's own risk. KHN Solutions assumes no responsibility for consequences to or of test subjects who use this product and later are shown to have been under the influence of alcohol or to have had their judgment or any mental or bodily function impaired by alcohol. Correlation between breath alcohol content and blood alcohol concentration depends on many variables, including environmental factors (such as air quality, wind, humidity, temperature, etc.) and health conditions of the test subject. A low BAC reading does not mean that the test subject's physical or mental performance or judgment (including reaction times) can respond to an emergency. The concentration of alcohol in the blood of a test subject cannot be exactly determined by using a breath alcohol screening product.

KHN Solutions does not warrant that the operation of the product will be error-free. KHN Solutions 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 KHN Solutions; (c) to consequences caused by service performed by anyone who is not a representative of KHN Solutions or a KHN Solutions Authorized Service

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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 of 0.008 and 0.032. Accuracy at a Blood Alcohol Concentration greater than .032 has not been established.

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 in which the product purchase took place.



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