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

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**Track your B.A.C. – BACtrack!**

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The **BACtrack® 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 AAA 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*

<table>
<thead>
<tr>
<th>BAC</th>
<th>Dose-Specific Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.02-0.03%</td>
<td>Slight euphoria. Loss of shyness. Depressant effects are not apparent. Impairment possible in some individuals.</td>
</tr>
<tr>
<td>0.04-0.06%</td>
<td>Feeling of well-being, relaxation, lower inhibitions and sensation of warmth. Euphoria. Some minor impairment of reasoning and memory. <strong>Lowering of caution. Driving skills may be impaired at this level of intoxication.</strong></td>
</tr>
<tr>
<td>0.07-0.09%</td>
<td>Slight impairment of balance, speech, vision, reaction time, and hearing. Euphoria. Judgment and self-control are reduced. Caution, reason and memory are impaired. <strong>Driving skills are always impaired at this level of intoxication and higher.</strong></td>
</tr>
<tr>
<td>0.10-0.12%</td>
<td>Significant impairment of motor coordination and loss of good judgment. Speech may be slurred. Balance, vision, reaction time and hearing will be impaired. Euphoria.</td>
</tr>
<tr>
<td>0.13-0.15%</td>
<td>Gross motor impairment and lack of physical control. Blurred vision and major loss of balance. Euphoria is reduced and dysphoria (anxiety, restlessness) begins to appear.</td>
</tr>
</tbody>
</table>

* 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 on the previous page.

** 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 any level above 0.00% BAC. It is never safe to drink any amount of alcohol and drive.
PREPARATION

Installing the Battery
Install two AAA alkaline batteries in the battery compartment.

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. Do not force it—mouthpiece will only insert a few centimeters.

STEP 2: Press 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.
**Error Notification**

**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.

The BACtrack Breathalyzer will turn off automatically in 15-20 seconds. You can also turn off the breathalyzer during the countdown by pressing and holding down (start button symbol) for 3 seconds.

**Memory Mode**

Enter the memory mode by pressing the memory button during the countdown. The most recent test result will occur first. The next test results will be displayed sequentially by pressing the memory button. The breathalyzer will recall up to 10 tests. If the memory is full, the oldest test will be deleted automatically.

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 AAA batteries.

If the unit displays “Err2” after step 4, it means excessive salvia went into the sensor during the test. Wait 20 minutes, and then try again.
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. 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.

5. Replace the two AAA batteries when the battery indicator icon reaches one bar.

6. Send your tester in for periodic calibration service as required. (See Calibration).

7. The BACtrack Breathalyzer is designed to be used in a temperature range of 32-104 °F (0-40 °C).

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.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>4.25 x 1.875 x 0.625 inches (11 x 4.7 x 1.7 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3 oz (84 g) With mouthpiece and batteries</td>
</tr>
<tr>
<td>Sensor Technology</td>
<td>Xtend™ Fuel Cell Sensor Technology</td>
</tr>
<tr>
<td>Detection Range</td>
<td>0.000 – 0.400 %BAC</td>
</tr>
<tr>
<td>Memory</td>
<td>Displays results from last 10 tests</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Two AAA alkaline batteries, included</td>
</tr>
<tr>
<td>Battery Life</td>
<td>Approximately 1000 tests</td>
</tr>
<tr>
<td>Warm Up Time</td>
<td>10-20 seconds</td>
</tr>
<tr>
<td>Response Time</td>
<td>10 seconds</td>
</tr>
<tr>
<td>Sensor Accuracy</td>
<td>+/- 0.005 %BAC @ 0.1 %BAC</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32-104 °F (0-40 °C)</td>
</tr>
</tbody>
</table>
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 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.

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**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 Provider; or (d) to a product or part that has been modified to alter functionality or capability without the written permission of KHN Solutions.

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, KHN SOLUTIONS 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 KHN SOLUTIONS CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THE EXPRESS WARRANTY AND TO THE REPAIR OR REPLACEMENT SERVICE AS DETERMINED BY KHN SOLUTIONS IN ITS SOLE DISCRETION.

EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, KHN SOLUTIONS 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.
Obtaining Warranty Service

Please be sure to read this instruction manual carefully if you believe your product is not operating properly. If you still feel that your product requires warranty service, please follow these instructions:

Obtain a Return Authorization (RA) number by emailing support@bactrack.com

When shipping the product back to KHN Solutions, please package the product carefully and ship using a major carrier (UPS, FedEx, USPS, etc). To ensure proper credit for a returned item, be sure to obtain a delivery confirmation on the return shipment. The customer is responsible for all return shipping charges.

Include the following information with your returned product:

- Your Return Authorization number
- Name, address, and phone number as stated at the time of order
- A copy of your original sales receipt