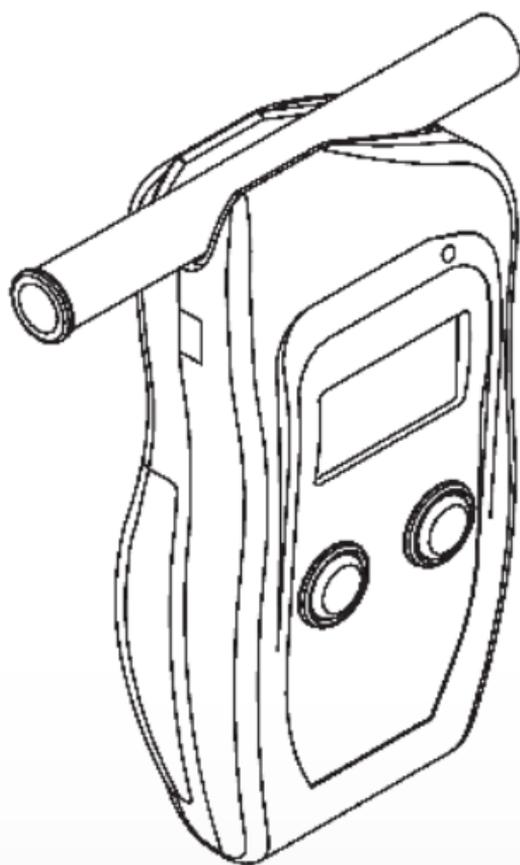


ALERT™ J5

Professional Series
Breath Alcohol Tester



ALCOHOL COUNTERMEASURE SYSTEMS

Instruction Manual

Federal Communications Commission (FCC) Disclaimer

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operations are subject to the following 2 conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operations

Industry Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Alcohol Countermeasure Systems Corp

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INTRODUCTION

Thank you for purchasing the ALERT™ J5 – a breath alcohol tester (BAT) that measures the alcohol level in human breath. Based on your jurisdiction, your ALERT J5 comes with preset levels that indicate whether the alcohol breath test result is a fail (red LED light), warning (amber LED light) or pass (green LED light).

SAFETY AND PRECAUTIONS

Take the following precautions to ensure smooth and uninterrupted use of your device:

- Use the product for its intended purpose only
- Use AA Alkaline batteries only
- Do not store in extreme heat or cold and avoid exposing the device to direct sunlight for extended periods of time
- Do not blow smoke or any fluids into the mouthpiece, as these can damage the sensor
- Do not open the BAT case. Doing so will void the warranty and may also damage the components within
- Keep all magnets and transmitting devices (such as mobile phones) away from the BAT to minimize RF interference
- If you spill any liquid on the ALERT J5, remove all excess fluid with a cloth and allow the device to dry thoroughly before attempting to power on. Do not power on in case of excessive water damage

WARRANTY

All ACS products are warranted to be free of defects in workmanship and materials for a period of one year from the date of shipment. ACS agrees to replace or repair any defective device, provided the defect was not caused by misuse or mishandling.

The ALERT J5 being returned for warranty repairs must be properly packaged and shipped prepaid to an authorized service provider.

MAINTENANCE

ALERT J5 requires periodic maintenance and calibration. After testing and calibrating at the factory, ALERT J5 is deactivated so it can be stored without losing any clock time from the calibration period. You need to activate it to start using it (see the “Activating” section). Once activated, ALERT J5 automatically increments the date for the next calibration by 365 days from the date of activation.

NOTE: ALERT J5 is calibrated for optimal performance at the point of shipment.

CONTACT INFORMATION

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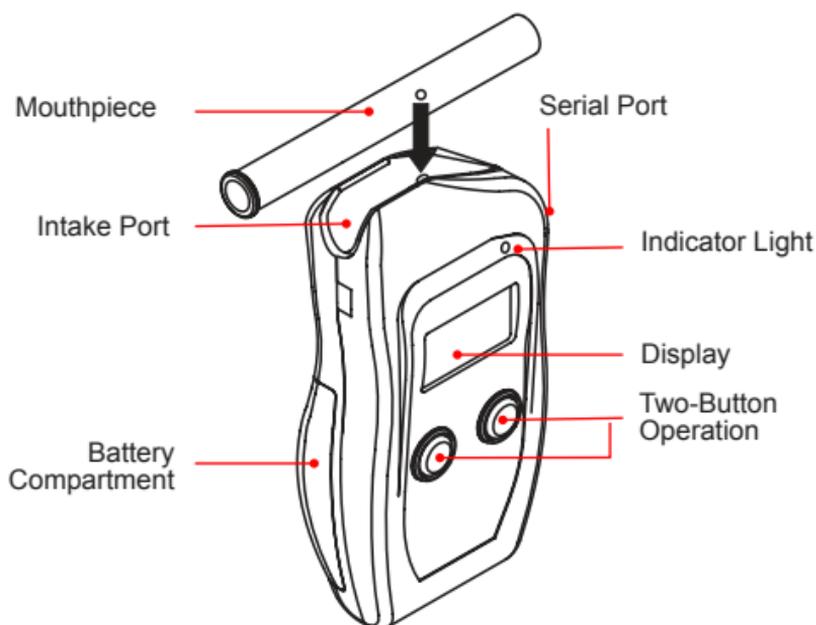
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GETTING STARTED

The ALERT J5 is a professional series breath alcohol tester (BAT) that is accurate and easy to use. It measures breath alcohol concentration (BrAC), which is directly proportional to blood alcohol concentration (BAC).

This section familiarizes you with the basic features, such as the menus, buttons, and batteries of the device.



Buttons and Menus

The ALERT J5 has an interface similar to a cellular phone, which allows you to navigate all menus using the two buttons.

Either button powers on the device. To navigate using the two buttons:

- Use the right button to scroll down to your selection (scrolling up is not possible)
- Use the left button to select (Enter) the option

The device has the following menus:

- **Last 100 tests:** Recalls and displays the last 100 test results. You have the option of printing using the right button. Refer to the “Printing” section for details
- **Calibration:** Shows the date of last calibration. You can re-calibrate using the right button. Specialized equipment is required to accurately calibrate ALERT J5 and you should not attempt to calibrate it yourself
- **Deactivation/Activation:** A service menu option for use by manufacturer or distributor. Units are supplied to customer in “Activated” state
- **Date/Time:** Shows the current date and time of the device. Use the right button to scroll through the digits and the left button to change the values. You can also set the time to a 12 or 24 hour format
- **Settings:**
 - Change the units of the BrAC/BAC. Using the right button, scroll to the desired unit and press left button to select. The units available are: mg%, %BAC, g/L, mg/L, and $\mu\text{g}/100\text{mL}$
 - Backlight: Set the brightness of the backlight and the time you would like the light to stay on

-
- **Shutdown timer:** Set the time for auto shut off. This time can be between 30 seconds and 900 seconds (15 minutes)
 - **Language:** Set the display language using the right button. Scroll through to view available options
 - **Shut down:** Use this menu to manually shut down the device without waiting for automatic shut off. This option does not deactivate the device; it only shuts off the device

BAC/BrAC Format

The blood alcohol concentration (BAC) or the breath alcohol concentration (BrAC) format is available in five formats; mg%, mg/L, %BAC, g/L and $\mu\text{g}/100\text{mL}$. You can select the desired unit from the **Settings** menu.

Power On/Shut Down

Press either of the two buttons to power on the device. A flashing amber LED light indicates that the device is warming up for a test, and you will see a **WAIT** message on the display (for approximately 3 seconds). A green flashing LED light with a **READY** message on display indicates that the device is ready and you can now do a breath test.

You can manually shut down the device by selecting **Shut down** from the Main Menu. Alternatively, the device shuts down automatically after a specific period of time. You can set this time to suit your needs from the **Settings** menu option.

Activating

ALERT J5 is shipped deactivated after it is calibrated and passes inspection at the factory. This allows the device to be stored without losing any time from the calibration period. You have to activate the device to start using it. Once activated, the date for the next calibration increments by 365 days from the date of activation.

A **Not Activated** message when you initially power on the device indicates that it is not activated and no test can be performed until it is activated.

NOTE: *This feature is displayed on the Main Menu, only if your ALERT J5 has been previously calibrated. It is not possible for you to deactivate the device.*

To activate:

1. From the **Not Activated** screen, press the left button to activate it. The date the device was deactivated is shown.
2. Press the right button to activate the device. The calibration due date is now 365 days from the current date.

Battery

The ALERT J5 requires two AA Alkaline batteries to operate. To insert, remove the battery compartment rear cover (press the tab to release).

TESTING

Taking a Breath Test

NOTE: Certain things like drinking, eating, and smoking may distort the results of a breath alcohol test. It is recommended that you rinse your mouth with water or wait for at least 20 minutes before taking a test.



1. Take a new mouthpiece and insert it on top of the ALERT J5 device. With the display facing you, connect the mouthpiece to the device by aligning the holes and having the rimmed (larger) end of the mouthpiece pointing to the left.

NOTE: To ensure accurate results, use a new mouthpiece for each test. A used mouthpiece may be contaminated from the previous tests, which may result in inaccurate readings. Use part number 95-000130 to order more mouthpieces from ACS.

2. Power on the device by pressing either of the two buttons. You will see a flashing amber LED light and a **WAIT** message as the device goes through the boot up sequence.
3. After 2 to 3 seconds, once the flashing LED light turns green and the device displays a **READY** message, you can begin a breath test.

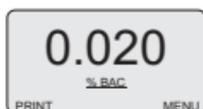




4. Take a deep breath and blow into the mouthpiece moderately, at a constant rate and pressure, until you hear a click sound (approximately 5 seconds). You should hear a continuous beep, indicating a proper breath flow. The click indicates the sampling process is complete.

NOTE: *If the breath sample is insufficient, the LED light flashes red and you will see a message to correct the problem. Refer to the “Troubleshooting” section for details.*

5. Stop blowing when you hear the click and the tone stops.
6. The device analyzes the sample. Time taken (a few seconds) depends on the amount of alcohol present in the breath sample. If the breath test is being done outdoors in colder weather, the time to analyze may increase by a few seconds.
7. ALERT J5 analyzes and displays the results.



NOTE: *The colour of the LED light that accompanies the results is for reference only; results given in numbers should be considered at all times, especially for new and professional drivers that may have a different maximum limit as per local regulations.*

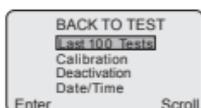
8. You can:

- Print the displayed result by pressing the left button. Refer to the “Printing” section for details
- Start a new test by pressing the right button

Recalling a Breath Test

You can recall any of the 100 most recent tests to either view on screen or print. To recall a test:

1. Press the right button to access the menu.



2. Scroll down to the **Last 100 Tests** option, using the right button and select the option using the left button. This displays the details of the most recent breath test.

NOTE: You can print a test result from here. Scroll down to the **Print** option using the right button and select the option by pressing the left button. Refer to the “Printing” section for more information.

3. To view other recent tests, use the right button to select the **X/100** (such as 1/100) option and press the left button to scroll to the specific test you wish to view.

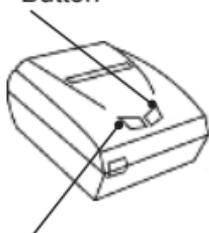


Scroll Through Breath Tests

PRINTING

An optional battery operated printer can be purchased to print the BAC results on site. This rechargeable printer connects to ALERT J5 using a serial communication cable. The printer kit includes:

Line Feed Button



Power Button

- Rechargeable battery pack
- 12V power adaptor
- Paper roll
- Serial communication cable (RS-232)

NOTE: Fully charge the battery pack overnight before using the printer for the first time. The printer cannot print while the battery is charging (refer to the “Inserting/Charging the Printer Battery” section).

Serial Printing

Follow these steps to print the results of the current breath test using the provided communication cable:

1. Power on the printer by pressing the left power button. If the printer does not turn on, the battery may require charging.
2. Connect the ALERT J5 to the serial jack below the printer, using the serial communication cable.
3. With the breath test result showing on the ALERT J5 display, select the **Print** option by pressing the left button. ALERT J5 detects the cable, and uses the serial (RS-232) port.

Serial (RS-232) Port



NOTE: To print a recalled test, refer to the “Recalling a Breath Test” section for details.



4. You will see **Port: RS-232** message displayed to indicate serial printing.
5. Press the right button to start printing. This displays a **Wait...** message until the printing begins.
6. A **Done!** message is displayed when the printing is complete.

J5 Breath Alcohol Tester	
Serial Number:	000056
Unit of Measurement:	%BAC
Test Record No:	8
Subject Test	August 28, 2007
0.051%BAC	09:57:06
Subject Name	_____
Licence Plate	_____
Operator Name	_____
Test Location	_____
Department Name	_____

Print Sample

7. To return to the breath test result, press the left button to select the **Back** option.

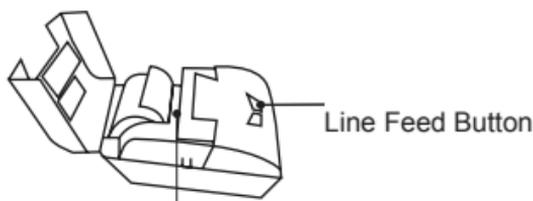
Inserting/Charging the Printer Battery

1. Align the power terminals and push the battery pack in the compartment below the printer.
2. Plug the provided AC or DC car charger to the jack at the rear of the case.
3. The left power button on the printer also lights up red, indicating the battery is charging. Allow the battery to charge for 12-16 hours initially.
4. When the battery is fully charged both red lights turn off. Unplug the power to the case.

NOTE: *To prolong the battery life, remove the battery when the printer is not in use, and let the battery drain fully before recharging.*

Loading the Paper Roll

1. Open the printer top cover by pushing up on either side of the printer.
2. Pull the tab to the right and insert the paper roll, so that the paper dispenses *under*. Release the tab to align the paper roll.
3. Feed the paper into the slot between the roller and ribbon cassette.



Insert Paper Under

4. Turn the printer power on (left button), and press the right line feed button until the paper feeds smoothly through the printer.
5. Close the top cover.

NOTE: Use part number 95-000171 to order more paper rolls from ACS.

MAINTENANCE & TROUBLESHOOTING

Troubleshooting Table

IF THE ALERT J5	THEN
Does not power on	Change the batteries
Displays Not Activated	Press the left button
Cannot print serially (using communication cable)	<ul style="list-style-type: none">• Check that the printer is on• Check the cable connection• Check the cable
Is displaying irregular results	<ul style="list-style-type: none">• Change the mouthpiece. Use part number <i>95-000130</i>, to order more mouthpieces from ACS• Eating, drinking or smoking 20 minutes prior to taking the test can contaminate results. Wait for at least 20 minutes and repeat the test• Check if a calibration is due
Has a clogged or dirty mouthpiece	<ul style="list-style-type: none">• Change the mouthpiece• Use part number <i>95-000130</i> to order more mouthpieces from ACS
Is using a printer that is out of paper	<ul style="list-style-type: none">• Replace the paper roll• Use part number <i>95-000171</i> to order more rolls from ACS
Is displaying PEAK ERROR	<ul style="list-style-type: none">• You are trying to calibrate the device with a solution less than 100 BAC• Do not attempt to calibrate yourself
Requires service	Contact ACS for return procedure

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