ALERT J5

Portable Breath Alcohol Tester

User Guide

ACS

ALCOHOL COUNTERMEASURE SYSTEMS

ALERT J5 Specifications

Description	Specifications
Size	130 mm x 59 mm x 32 mm
Weight	110 grams
Ambient Temperature	0^0C to 50^0C
Sensor	Electrochemical Fuel Cell
Specificity	Alcohol only, no response to ketones, hydrocarbons
Purge Cycle	< 30 sec.
Mouthpiece Style	Straight tube (pressure tube)
Last Test Recall	Up to 10
Breath Sample	5 second moderate and continuous
Analysis Time	< 10 sec.
Recycle Time (Recovery)	25 sec.
BAC Readout Formats	0 to .450 mg%
Range of Measurement	0 to .450 mg% (0.000 to 0.450 % BAC)
Accuracy	+/- 5% @ 100 mg % (+/-0.005 @ 0.100% BAC
Number of Tests	1,000 (new batteries)
Automatic Power Down	After 120 seconds. (2 minutes)
Display	LCD Menu Interface
Battery Type	2 x AA Alkaline Batteries.
DC Power Source	Power Port DC Type 12 volt. (vehicle)
Calibration	Alcohol/Water Simulator / Calibrate Every 6 months or 500 Tests whichever comes first.
Complete Package	J5, case, batteries, and 5 mouthpieces
Optional	Printer
Protection Plan	2 and 3 yr Product Protection Plan

TroubleShooting:

If for any reason you are having difficulty operating your ALERT J5 please refer to the following troubleshooting menu before contacting ACS Customer Service.

Contact ACS: service@acs-corp.com

Problem	What to Do / Remedy
I can't turn the ALERT J5 on	Are the batteries in need of replacing ?
I cannot get a BAC result	Make sure to provide a breath sample correctly
I cannot see the display outside	Adjust brightness of ALERT J5 in direct sunlight.
I cannot set the time or date	See the Menu section for instructions.
I cannot print the result	Ensure that the J5 is connected properly. Check distance if printing wirelessly (<1m).
The mouthpiece won't connect	Check to make sure correct mouthpiece is being used. (Use pressure tube type only.)
I cannot access test recall	See Section on Test Recall
The ALERT J5 won't shut off	The ALERT J5 can auto power off, see section on settings.
I cannot set the language	See the Menu - Language Sections
I cannot calibrate properly When do I re-calibrate ?	Make sure you follow procedures for calibration. An expiry message will prompt the user to recalibrate (6 months /500 tests).
The mouthpiece does not fit	Make sure to use correct mouthpiece
The ALERT J5 will not turn on	Check battery power / Try new batteries.
I dropped the ALERT J5 by accident - will it still work ?	Open the battery cover and make sure the batteries fit snugly before contacting ACS.
Where can I send the ALERT J5 for service ?	If the warranty is still in effect: Return to ACS Corp.
How do I print results ?	Refer to Section on Printing
The wireless print connection is not working	Make sure the distance between the printer and Handset is within 1 metre.
I don't understand the Menu - how to access	Refer to the LCD Menu Section
The mouthpiece port is clogged - what should I do	Contact ACS Corp for assistance.

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* A Calibration Assistance booklet is available if needed.

What's New in ALERT J5 Technology Over Previous Portable Breath Alcohol Testers ?

Easy Portability/ Adaptability

Breath alcohol detection has never been easier, the ALERT J5 provides an evidential-capable solution in a small handheld package. Ideal for a range of professional applications in law enforcement on land, air and sea, ALERT J5 does not require tricky installation wiring and is fully portable. Powered by 2 AA batteries, ALERT J5 ensures hundreds of tests between charges to give you the reliability you can count on.
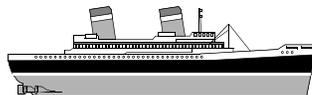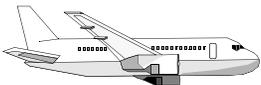
Improved Full Functionality & Menu Features

ALERT J5 brings added functionality to portable breath testing with a new range of functions accessible from the LCD menu. Test recalls are now possible to enable full archiving and printing of all recorded breath test results. Users and administrators of ALERT J5 enabled alcohol monitoring programs now have access to extremely detailed test data to assist with program management.

New Sampling Mechanism / Breath Volume Reduction

The ALERT J5 uses a unique alcohol-specific fuel cell and pump system to assess breath samples that requires less than 1% (1.2l) of the previous breath volume to provide an accurate BAC evaluation. Also new is a large backlit, LCD Screen to assist users with easy menu/function selection, reducing training times and enabling users to become experts in operating the J5 in a minimum amount of time.

Variety of Applications/Recommended Uses

Law Enforcement, Government, Business, Logistics (Rolling Transport and Rail), Marine and Heavy Equipment.

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ALERT J5

Portable Breath Tester

Notes:

_____

ALERT J5 Handset

Handset Features

Pressure Tube Mouthpiece

LCD Display
(Backlit)

LED Indicator

Large Two
Button Operation
(Can be operated with gloves)

ABS Shatter
Resistant Case

Ergonomic Hand Held Design

1 Serial Port Connection
(5 pin)
(For Printer)

2 irDA Port Window (effective to 1m)

Getting Started with the ALERT J5

1. Press either the left or right button to Turn the ALERT J5 on. The READY screen appears as below:

2. Note that ALERT J5 LCD display has detailed information on screen with time, status, battery strength indicator and a help/menu option.

3. In the READY state, provide a breath sample for testing and analysis - make sure to attach the mouthpiece as shown on the next page.

ALERT J5 Pressure Tube Mouthpiece

ALERT J5: Service Record

Make note of service or repairs made to your ALERT J5, it will assist technical service advisors at ACS with providing excellent solutions to any issues you may encounter.

For troubleshooting contact: service@acs-corp.com

Date:	Service Performed: (Enter Details)

Date of Purchase/ Serial Number:

Tip: The serial number can be found in the "About Device" menu in the ALERT J5 Handset.

Quality Workmanship & Warranty

The ALERT J5 is warranted to be free from defects in workmanship and materials for a period of one year from the date of shipment.

Alcohol Countermeasure Systems agrees to replace or repair any unit or part that in its judgement is found to be defective, providing that the defect has not been caused by misuse or mishandling. Units in warranty must be properly packaged and shipped prepaid to the factory authorized service center.

For service and product inquiries please contact:

service@acs-corp.com

Patent Protection

Alcohol Countermeasure Systems Corp is the owner of an extensive number of patents in several countries covering various aspects of breath sampling procedures and breath alcohol measurement. This instrument incorporates many breath testing principles as outlined and protected by these patents.

EMC Compliance / WEEE Directives / RoHS Compliance

The ALERT J5 meets the following standards for electromagnetic compatibility standards:

EMC Directive: 204/104/EC
CEcert GmbH Certification: August 2/06 Cert # 606.083.1
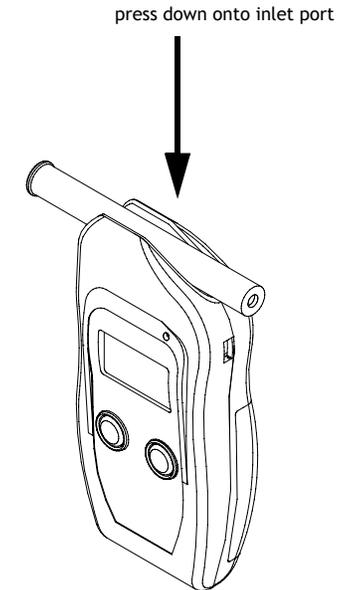Test Standards: EN 61000-6-1:2001
                EN 61000-6-3:2001 +A11:2004
Test Report: # 406083.1

This product also meets/exceeds directives for Waste Electrical and Electronic Equipment (WEEE), 2002/96/EC, and the Restriction of Use of Certain Hazardous Substances (RoHS), 2002/95/EC.

Attaching the Mouthpiece (Pressure Tube)

Breath alcohol analysis requires the use of an new, sterile, disposable mouthpiece for every breath alcohol test to ensure good hygiene and the accuracy of the breath sample. Make sure to use a new pressure-tube mouthpiece from a sealed plastic package every time.

press down onto inlet port

1 Align the mouthpiece outlet hole to the J5 inlet port. (bottom of tube)

2 Press the mouthpiece firmly into place.

Controlling Residual Mouth Alcohol

Using the ALERT J5 is simple - power on with either left or right button, and wait for the "READY" screen. Before administering a breath test, ensure the following:

Cautions (2) :   No Drinking or Smoking Prior to Breath Test.

To ensure accuracy, please make sure test subject has not had anything to drink within the last 15 minutes.

Also, make sure the test subject has not been smoking for at least 3 minutes.
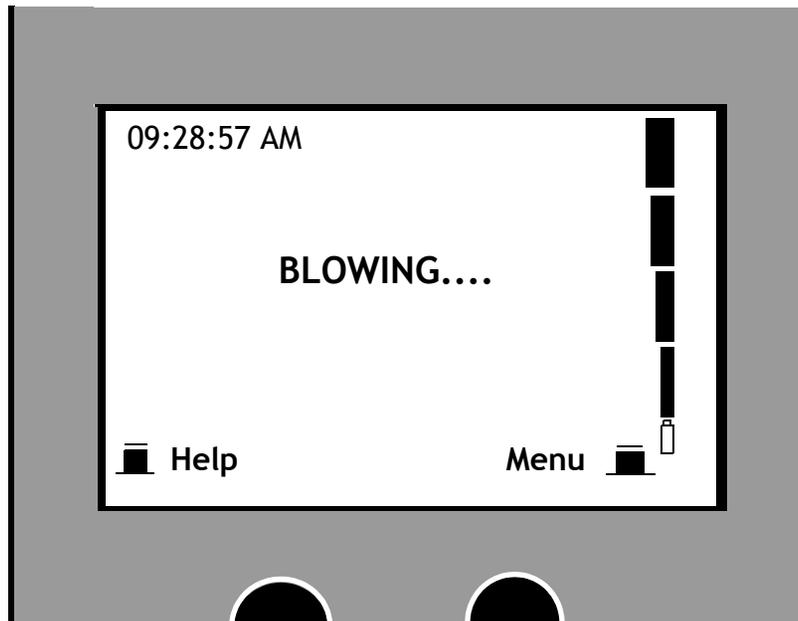
Obtaining a breath sample for analysis is very easy with ALERT J5.

Here's how to capture a breath sample for testing:

1. **Turn on the ALERT J5** by pressing the left or right button.

2. Check to make sure that the Mouthpiece is properly attached and wait for the READY Screen to appear.

3. Have the subject provide a breath sample by blowing into the mouthpiece for at period of 5 seconds. Continuous pressure is recommended - the ALERT J5 has an intuitive LCD display and built-in intelligence to sense proper breath pressure and will prompt the user to deliver a proper breath sample for testing.

BLOW for 5 seconds into the Mouthpiece

4. While the subject is blowing , **the LCD screen will display as shown**:

Province	BAC Upper Limit/ Lower Limit	Immediate Suspension Period	Interlock Requirement (yes/no)
Alberta	.08	ADLS under review	yes
British Columbia	.08/.05	30 days	review
Manitoba	.08/.05	30 day ADLS	yes
New Brunswick	.08/.05	180 days	yes
Newfoundland	.08 / * .05	1 year	yes
Nova Scotia	.08/.05	1 year	yes
Nunavut/ NWT	.08/.06	90 days ADLS	yes
Ontario	.08	90 days	yes
Quebec	.08	30 days	yes
PEI	.08 / .05	90 days	yes
Saskatchewan	.08/.04	1 year	yes
Yukon	.08	30 days	yes

The preceding table courtesy of Canada Safety Council, Table 1 " Provincial BAC Levels and Sanctions", Canada's Blood Alcohol Laws. 2006.
* Denotes driving privileges can be suspended at the level .05% BAC in Newfoundland.
Note: New drivers in Canada (under 20 months with full license) are subject to .00% BAC restrictions.

About Permissible Blood Alcohol Levels in Canada

Because sanctions can be imposed upon detection of a .05% BAC, it is more accurate to state that for most provinces it is impermissible to operate motorized vehicles at BAC levels higher than .05%. When an impairment level of .08% BAC is exceeded, it becomes a criminal matter and is subject to much stricter penalty.

Minnesota	.10	90 days	no	no
Mississippi	.08	90 days	after 15 days	no
Missouri	.08	30 days	no	yes
Montana	.08	--	--	yes
Nebraska	.08	90 days	after 30 days	yes
Nevada	.08	90 days	after 30 days	yes
New Hampshire	.08	6 months	no	yes
New Jersey	.08	--	--	yes
New Mexico	.08	90 days	after 30 days	yes
New York	.08	variable	yes	yes
North Carolina	.08	30 days	after 10 days	yes
North Dakota	.08	91 days	after 30 days	yes
Ohio	.08	90 days	after 15 days	yes
Oklahoma	.08	180 days	yes	yes
Oregon	.08	90 days	after 30 days	yes
Pennsylvania	.08	--	--	yes
Rhode Island	.08	--	--	yes
South Carolina	.08	--	--	yes
South Dakota	.08	--	--	no
Tennessee	.08	--	--	yes
Texas	.08	90 days	yes	yes
Utah	.08	90 days	yes	yes
Vermont	.08	90 days	no	no
Virginia	.08	7 days	no	yes
Washington	.08	90 days	after 30 days	yes
West Virginia	.08	6 months	after 30 days	yes
Wisconsin	.08	6 months	yes	yes
Wyoming	.08	90 days	yes	no

The above table is provided to you by The Insurance Institute for Highway 2006 http://www.highwaysafety.org U.S % BAC Limits by State, 2006.

Obtaining a Breath Sample (Cont'd)

5. While sampling breath alcohol , the ALERT J5 has an ability to accurately assess proper breath flow for sampling and will prompt the subject if breath flow is too low, or too high. A properly delivered breath sample is followed by a BAC result within 10 seconds. When blowing into the ALERT J5, make sure to blow for **5** seconds. Listen for the tone to sound and complete the breath test.

If breath flow is too low, the following message is displayed.
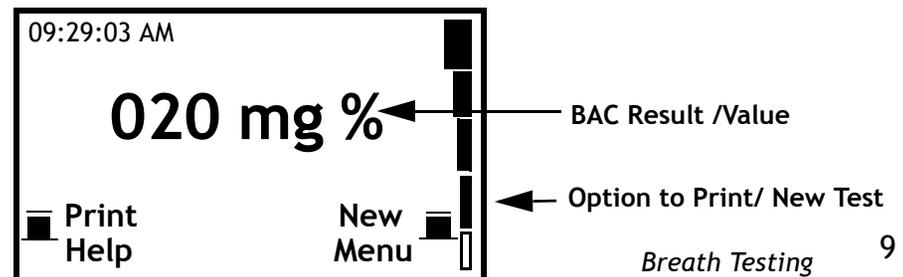
ACTION: Blow Harder.


```
11:13:04

BLOW HARDER

Help        Menu
```


If breath flow is too high: **ACTION:** Blow softer

BLOW SOFTER

6. Proper breath samples....result in the ANALYZING message...

The breath sample is being evaluated by the sensor and a result will follow (<10 sec.):

ANALYZING...

```
09:29:03 AM


020 mg %


Print          New
Help           Menu
```
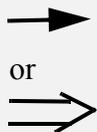
← BAC Result /Value

← Option to Print/ New Test

Breath Testing   9

Press/ Enter Prompt:
Press to scroll down through the menu selections. (right button.)

Hold and Exit Prompt:
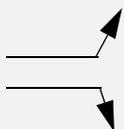Use this prompt to exit the Test Recall Menu.

Arrow Keys:
Help to scroll through the records one at a time. Alternates with the thicker arrow to allow scrolling through the records 10 at a time.

or

001/062*

Current/ Total Test Records: (Test #)
Displayed in the right corner is the number of test records, both current record and total number of records in memory.

.020 mg %

BAC Value:
Once a breath test is evaluated, the result is indicated on the LCD Display for viewing or printing. (eg. .020)

Scrolling Arrow Key: (Up or Down)
This right corner key allows moving from screen to screen in the ALERT J5.

June 27, 2006
10:55:41 AM

Date and Time:
The Date and Time of all submitted breath tests is captured for archiving and printing.

*The ALERT J5 has a unique test recall memory designed for archiving stored test results for printing and retrieval of test records. Tests can be viewed one at a time or paged through 10 at a time to find the preferred test record.

State	BAC Legal Limit	Administrative License Suspension 1st Offense	Restore Driving Privileges during Suspension	Interlock Requirement
Alabama	.08	90 days	no	no
Alaska	.08	90 days	after 30 days	yes
Arizona	.08	90 days	after 30 days	yes
Arkansas	.08	120 days	yes	yes
California	.08	120 days	after 30 days	yes
Colorado	.10	90 days	yes	yes
Connecticut	.08	90 days	yes	no
Delaware	.10	90 days	yes	no
D.C	.08	2-90 days	yes	no
Florida	.08	6 months	yes	yes
Georgia	.08	1 year	yes	yes
Hawaii	.08	90 days	after 30 days	yes
Idaho	.08	90 days	after 30 days	yes
Illinois	.08	90 days	after 30 days	yes
Indiana	.08	180 days	after 30 days	yes
Iowa	.08	180 days	after 90 days	yes
Kansas	.08	30 days	no	yes
Kentucky	.08	--	--	yes
Louisiana	.08	90 days	after 30 days	yes
Maine	.08	90 days	yes	yes
Maryland	.08	45 days	yes	yes
Massachusetts	.08	90 days	no	no
Michigan	.08	--	--	yes

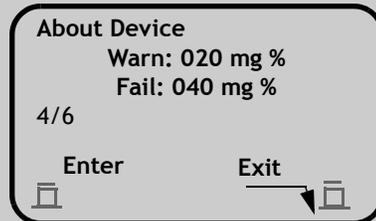## Range of BAC Measurement: Warn / Fail

ALERT J5 technology allows for customization of Warn and Fail blood alcohol limits (BAC), providing great flexibility based on jurisdiction. BAC Limits vary by country, by state, and by province, on a worldwide basis. ACS has designed the ALERT J5 to allow users in a variety of jurisdictions to custom set the upper (FAIL) and lower (WARN) BAC limit ranges for recording evidential data for each breath sample captured.

ALERT J5 is factory pre-set to **Warn at .020 mg % and Fail at .040 mg %** . In simple terms, a warn is displayed if your blood alcohol concentration is at or below .020 mg %, while a FAIL result is registered for any breath test above .040 mg %.

> **Note: Please follow your jurisdiction or local law enforcement regulations regarding FAILED BAC tests. All jurisdictions vary in impaired or DUI/DWI charges and proceedings.**

Setting Warn and Fail BAC:

Refer to About Device Menu, option 4/6 to Custom Set the Warn and Fail Settings for BAC testing.

```
About Device
        Warn: 020 mg %
        Fail: 040 mg %
4/6

    Enter            Exit
```

Setting BAC Measurement Type:
It is also possible to set measurement types in option 2/5: ie. mg %, % BAC, promille, mg/l.

Recovery Time with ALERT J5

Platinum electrochemical fuel cells used in ALERT J5 technology permit fast recovery and readiness for breath sample testing between subjects. Reliability and efficiency are improved, permitting hundreds of accurate tests per shift or rotation, with less need for re-calibration.

Platinum Fuel Cell Technology = Speed and Precision
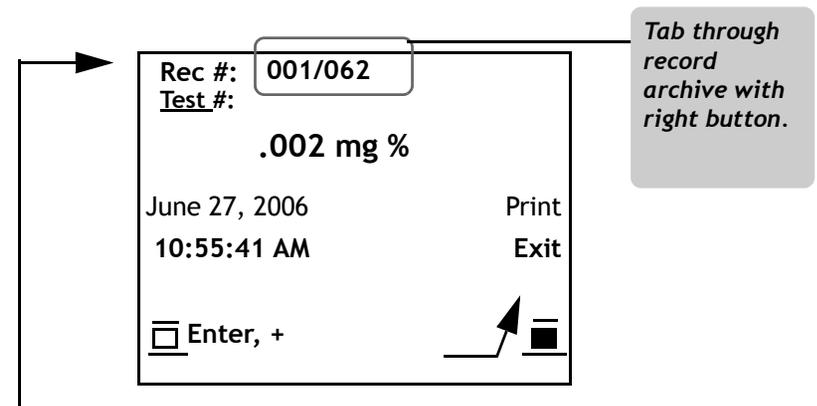
Using Test Recall / Printing Stored BAC Tests

All breath samples evaluated by the ALERT J5 are also conveniently stored in the test recall memory for printing and retrieval for other uses. Results can be retrieved for viewing and/or printing at a later time. The time and date of each breath sample is also saved. Tests can be viewed and printed one at a time and the user can page through stored results 10 records at a time to find the preferred test record.

Test recall enables Printing of all stored BAC test results directly from the ALERTJ5 Handset. The right button allows scrolling through the sub-menu to find the desired range of tests. Pressing the left button will allow access to the stored BAC result for Printing.

Using Test Recall

1. Scroll through the Main Menu on the ALERT J5 Handset.

2. Scroll down with the right button to find "Test Recall"

3. Select Test Recall by pressing the left/enter button.

The following screen appears:

```
Rec #:  001/062
Test #:

        .002 mg %

June 27, 2006            Print
10:55:41 AM              Exit


 Enter, +
```

Tab through record archive with right button.

> **Note:**
> The test number (one of 62 recorded), BAC value, and date and time for each specific breath test is displayed. A user can search the archives from here, print the results or exit. Tab through the archive with the left button key. Move down the screen menu with the Right button. To Print the record displayed, press and hold the right button.
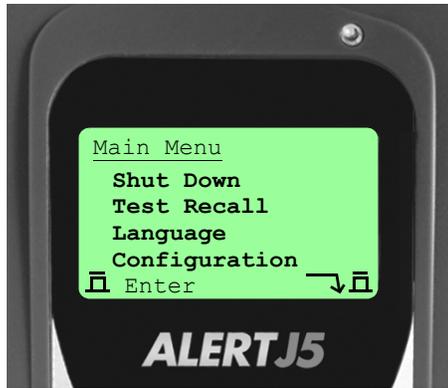
ALERT J5 Advanced Diagnostics Menu

This is for advanced users only - it is not necessary to use these features for basic operation.

ALERT J5 is designed to require very little maintenance but offers a diagnostics software platform which allows the user to make adjustments, check functions and sensors and ensure the integrity of test results.
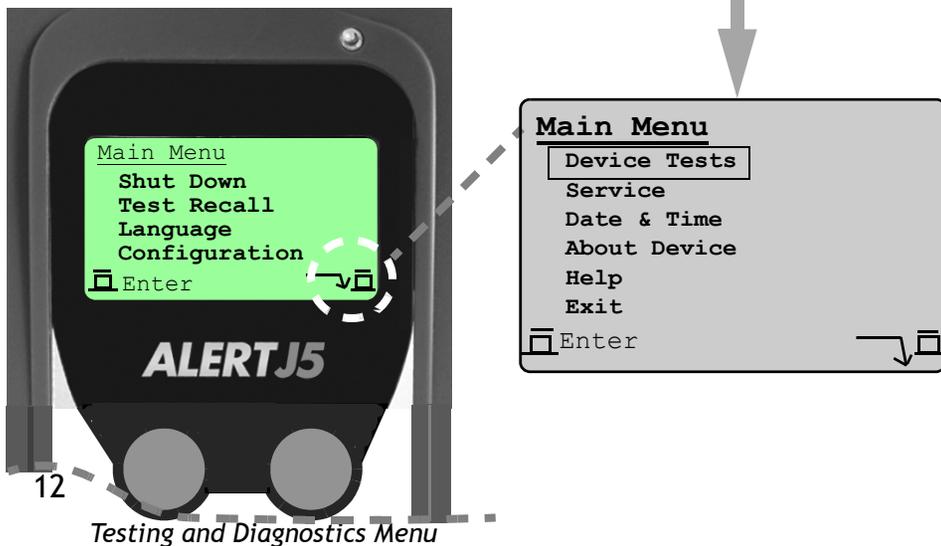
Diagnostics can be found in the sub-menu of **DEVICE TESTS.**

Use the right button to scroll down to the Device Test option.

```
Main Menu
  Shut Down
  Test Recall
  Language
  Configuration
 ☐ Enter        ⤵☐
```

To access Device Tests:

Select this option from the Main Menu screen by scrolling down the options list (right button) and Selecting "Device Tests" with left button.
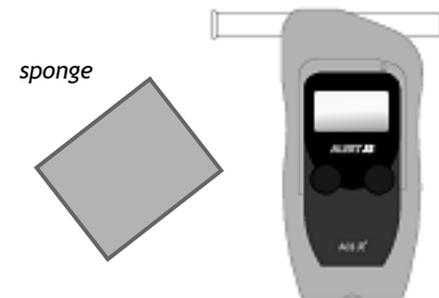
```
Main Menu
  Shut Down
  Test Recall
  Language
  Configuration
 ☐Enter         ⤵☐
```

```
Main Menu
  Device Tests
  Service
  Date & Time
  About Device
  Help
  Exit
 ☐Enter         ⤵☐
```

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Testing and Diagnostics Menu

ALERT J5: Safety and Precautions While Using

The ALERT J5 is designed to be very safe and easy to operate. Follow the precautions below when using your ALERT J5.

- Avoid using while driving or operating any machinery.
- Do not open the ALERT J5 case or attempt to open the sensitive components within.
- Avoid using the ALERT J5 in cold environments then bringing into a warm room. Condensation can occur and cause moisture to be deposited inside the LCD display.
- Avoid direct sunlight exposure to the ALERT J5. Keep the unit protected and never leave it on a hot dashboard or car seat.
- When not using for extended periods of time, remove the batteries to prevent corrosion to the contact plates/springs in the battery compartment.
- Should any coffee or other liquid be spilled onto the ALERT J5 avoid using and contact ACS for assistance. Clean off the surfaces with a damp cloth, do not use abrasive cleaners or solvents.
- Keep any strong magnets or cell phones, VHF, CB radios away from the ALERT J5 to ensure good operation and that interference is minimized.

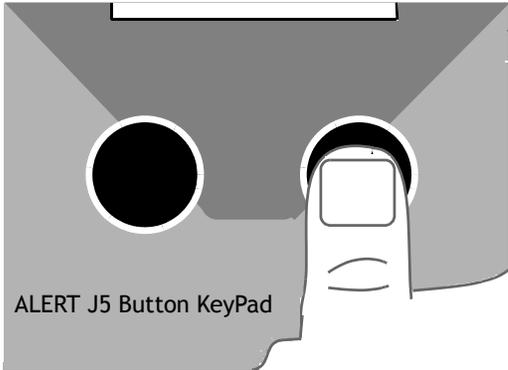### Cleaning the ALERT J5 LCD and Keypad

- Keep the LCD display clean and DO NOT use solvents or abrasive cleaners, alcohol etc. to clean the lens. If the LCD lens becomes dirty, a simple wipe with a damp cloth or sponge should be all that is required to clean the display.

sponge

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Safety and Precautions

ALERT J5 LCD Menu Help

The following symbols appear on the ALERT J5 LCD Screen and assist the user with left and right button operation of the ALERT J5. There is also a HELP menu accessible from the Main Menu. The large buttons allow operation with gloved hands for cold weather conditions.

Left and Right Button Operation

All functions of the ALERT J5 are accessed with the left and right button keypad.

ALERT J5 Button KeyPad

Tip: Use Thumbs to Operate the buttons.

Menu Operation Symbols:

| 1 or 2 | 3 or 4 |

1. Press to Operate/ Select
2. Press and Hold (2 sec.)
3. Scroll Up to next menu item.
4. Scroll Down to next item.

About Device
　　　Warn: 020 mg %
　　　Fail: 040 mg %

4/6

Enter, + or -　　　　Exit

Increase and Decrease Settings:

On some menus, i.e. when setting warn and fail BAC setpoints, you can increase or decrease the number desired by using the button keypad. Use the left button to increment and decrement the settings needed. Exit with right button once complete.

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Device Tests
Pump
FC-Heater
Fuel Cell
Pressure
Speaker
LED
Printer
RF
Exit

Test Pump: To test the sample pump for operational efficiency, select with Left button/Enter and the pump will fire confirming operation (after a 2 sec. countdown).

Test FC (Fuel-Cell) Heater: Toggling On or Off confirms operational efficiency of the on-board sensor's heater. 12 Bars indicated is 100% efficiency.

Test Fuel Cell: Testing of the Fuel Cell is possible with this screen.

Test Pressure: The ALERT J5 is intelligently designed to account for changes in breath exhalation pressure as well as barometric pressure.

Test Pump
P: 0350　　Pmin: 0345
　　On　　　　Exit

Pump off.
Enter

Test FC- Heater

　　　Off　　Exit

0617　　　　30^{0}C

Test FC

　　H: 0059　L: 0122
　　DAC (FC): 000

Exit
Enter

Test Pressure
　　　　　P: 0349

　　　　DAC (PS): 174
Exit

Enter + or -

.....
Speaker
LED
Printer
RF
Exit

Device Test Screen

Test Speaker:
Allows one to test the speaker tone.
Select enter with left button to test.
Exit with the right button once
speaker tone is confirmed.

Test LED:
The LED light on the Handset above
the LCD illuminates in 3 modes -
green, red, and yellow, and can be
set to flash also. Select with left but-
ton and exit with right button.

**Printer: The Print function is
accessed by irDA and serial means. If
no Printer is connected when
attempting to print an error tone will
sound followed by a Retry ? message.**

**Test RF: 5 different transmission
domains can be checked for signal
strength. Use the Right button to
scroll select,left button to enter.
Signal strength is indicated in the
upper right corner of LCD.**

Test Speaker

→ **On   Exit**

Enter

Test LED

The LED light on the Handset
above the LCD illuminates in
3 color modes - green, red,
and yellow, and can be set to
flash in all three colors.

**Test Printer
port irDA
Wait....**
Print   Exit

Enter / Exit

Test RF ———

**TxLow   Tx High
Tx Pulse   TxCode
Tx Codes   Exit**

Using ALERT J5 for Roadside Screening : DUI/ DWI

ALERT J5 is engineered to perform and deliver precision in breath alcohol
testing in a range of environments, but is especially well suited for police
applications at roadside and checkpoints for DUI/DWI patrols. The ALERT J5
provides outstanding reliability and performance - 1000 tests are possible
with a new set of batteries - making it an excellent field solution for law
enforcement programs. Nighttime operation and BAC testing is further
enhanced with the backlit LCD screen. Recovery and analysis are also much
improved so that driver checkpoints can be managed with ease.

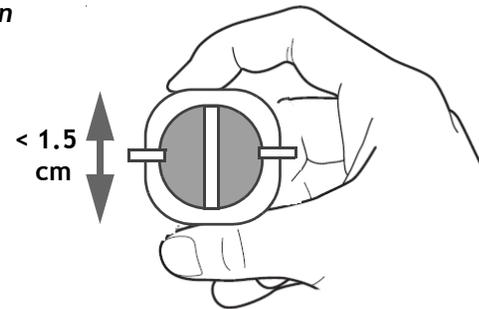*Stop DUI/DWI Offenders
at Sobriety Checkpoints / Patrols*

- 1000 Test Capacity
- Archive Storage of Results
- Nightime Operation

Evidential Accuracy: Platinum ACS Micro Fuel Cell

Long-term sensor stability is designed into the ALERT J5 by employing
platinum fuel cell technology - optimum evidential accuracy is assured with
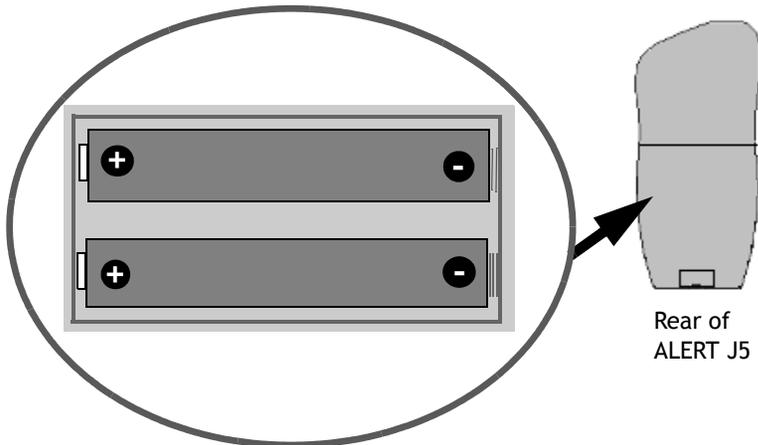years of trouble free operation and less frequent need for calibration.

*Platinum Precision
Accuracy*

< 1.5
cm

Battery : Replacement and Options

Follow the instructions below to replace and insert new batteries into the ALERT J5. Always take note of the battery indicator meter on the LCD display to make sure you have adequate power available.
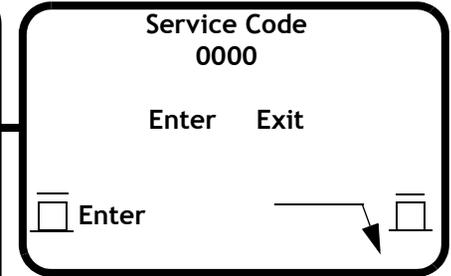
1 Locate the Battery Compartment on the rear of the ALERT J5.

2 Clasp the tab on the cover to remove cover.

3 Replace with 2 "AA" alkaline batteries. Make sure to align correctly to + and - terminals.

4 Close the battery compartment cover. When turning on the ALERT J5 with new batteries, the battery strength meter should be full (4 bars).

Rear of
ALERT J5

Tip: When not using the ALERT J5 for an extended period of time, remove the batteries to prevent corrosion of battery terminals.
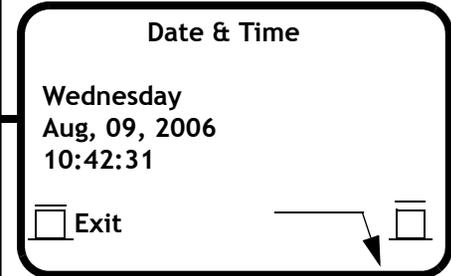
Service Code:

This is the point of entry for third party maintenance (TPM), garage or administrator to access service features. Enter the 4 digit code if you are authorized to do so.

Service Code
0000

Enter   Exit
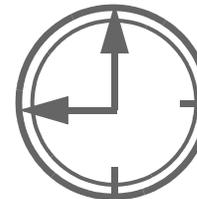
☐ Enter

Date & Time:

The ALERT J5 has an on board real time clock (RTC) that keeps track of elapsed time and current time - both for evidential purposes and for timekeeping.

Date & Time

Wednesday
Aug, 09, 2006
10:42:31

☐ Exit

Automatic Shut Down or Manual Shut Off

ALERT J5 has *automatic shut off* built-in to conserve battery power and enable longer in-service times and test capacity before having to replace batteries. If the ALERT J5 remains inactive for a period of time, it automatically powers off. *To manually shut off* press and hold the right button for 3-4 seconds.

Auto shutdown is factory pre-set to 45 seconds but can be customized as you will see in the next page. (Configuration Menu.)

Auto Shutdown : 45 Seconds

Option to set: 30-300 seconds.

Configuration

Backlight
Auto Shutdown
Time Format
Exit

Backlight

Brightness: 70%

Save + Exit   Exit

☐ Enter, + or -   ☐

The Configuration Menu allows setting of backlight intensity, auto shutdown and time format.

1. Select Menu Setting (i.e. Backlight) Desired with left button.
2. Use right button to adjust settings and exit the Menu.

Tips:

Backlight:
To increase the contrast on the LCD screen ,adjust in 10% increments with right button. 100% is brightest and is recommended for daylight operations.

Auto Shutdown:

On Time: 300 Second
(30-300)

Save + Exit   Exit

☐ Enter, + or -   ☐

Time Format:

Hour: 1~12 + Am/Pm
Hour: 0~23

Save + Exit   Exit

☐ Enter   ☐

Auto Shutdown:
When inactive the ALERT J5 can be set to turn off to conserve battery power. The shutdown range is adjustable from 30 to 300 Seconds.

Time Format:
ALERT J5 can follow a 23hr clock or 12 hour AM/PM time formats.

Select preference and exit to save.

16

Configuration Menu: ALERT J5

Calibrating the ALERT J5

Although the ALERT J4X.ec uses a high-precision, minimal drift electrochemical sensor (fuel cell) to analyse breath alcohol samples, it requires periodic calibration with a check-calibrate simulator.
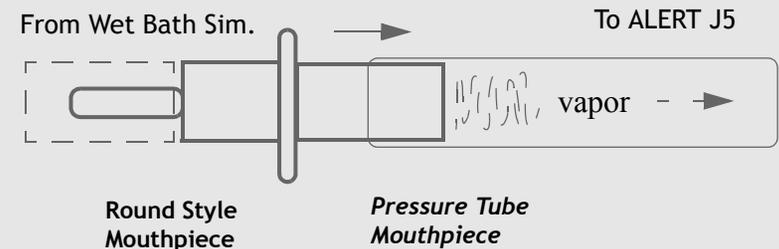
Follow the steps below to confirm accuracy and prepare the ALERT J5 for continued evidential precision in the field: (see foldout reference also).

A   *Prepare A Wet Bath Simulator* (not provided) with a known alcohol reference (ARS) solution. Concentrations can vary from .020%,.030%,.040% .050%,.08% and .100%. As long as the concentration is known, accuracy can be verified when conducting the calibration check. The Wet Bath Simulator/ToxiTest unit requires a 34^0C constant temperature and displays a ready light when calibration can begin:

B   **Connect the end of the Wet Bath Simulator outlet tube into the end of the pressure tube mouthpiece** or alternatively, connect first to a Round Style Mouthpiece as shown:

From Wet Bath Sim.   To ALERT J5

vapor – →

Round Style Mouthpiece   *Pressure Tube Mouthpiece*

C   **Turn the ALERT J5 on and allow the Handset to initialize and move to the READY screen.**
The ALERT J5 can now be calibrated:
Allow the simulated vapor to pass through the mouthpiece for 5 seconds, this allows a proper sample for analysis.

The correct BAC evaluation should match the alcohol reference solution. Repeat the above test 3 times for accuracy, and make sure to use a clean mouthpiece each time.
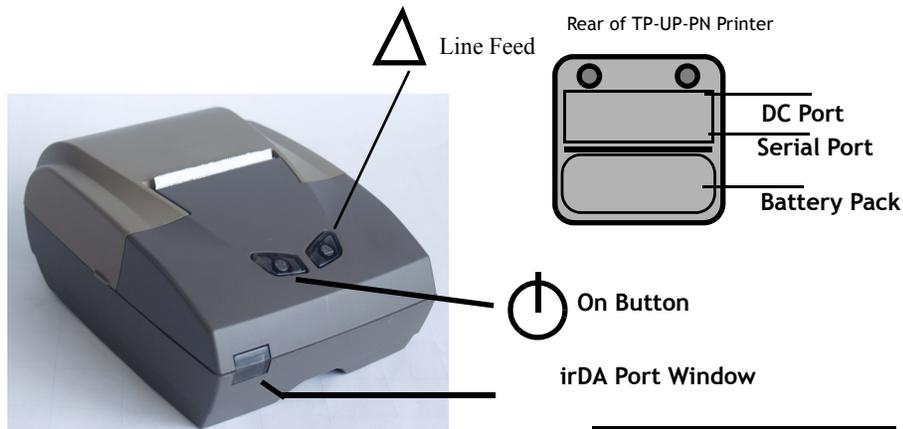
Simple Calibration of ALERT J5

The ALERT J5 offers print capabilities with two methods:

WIRELESS (using irDa) and SERIAL connection (cord).

Here's How to Print Wirelessly:

1 Make sure the Printer has been turned on, this will allow the ALERT J5 to recognize the printer through the infrared connection. The TP-UP-PN Printer has battery and DC Power Options.

2 Locate a preferred test record for Printing on the ALERT J5.

3 Select Print from the LCD Menu. It's that simple ! The irDA port on the left side of the unit is effective to a distance up to 1 meter.

Line Feed

Rear of TP-UP-PN Printer

DC Port
Serial Port

Battery Pack

On Button

irDA Port Window

ALERT J5 Printer (TP-UP-PN 40S Impact Printer)

Your Breath Sample Result is Printed on the Impact Printer Tape.

TIP: Safekeep the Recorded Result.

```
ALERT J5
Test No          016182
Measurement:   BAC
Serial No:       122345
Date:            2006.08.02
.000 % BAC       09:56
```

The TP-UP-PN Printer is very convenient for portable use - running on NiMH rechargeable batteries or a DC (6 volt) charger. Print speeds are quick through the irDA data control port and the unit is small and designed to be easily carried to field locations or DUI/DWI checkpoints. Replacing printer paper is easy - flip the cover open and follow the instructions on the printer lid.

Printer Paper replacement rolls are 58 mm in width and available by ordering through ACS at : service@acs-corp.com
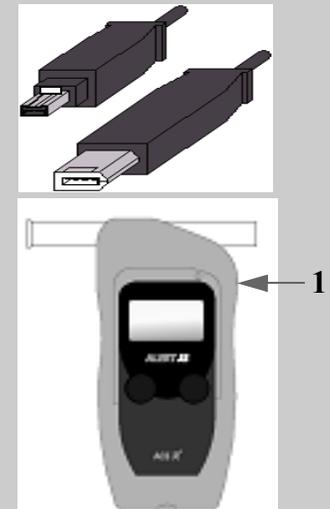
Printer Paper Roll # 95-000174
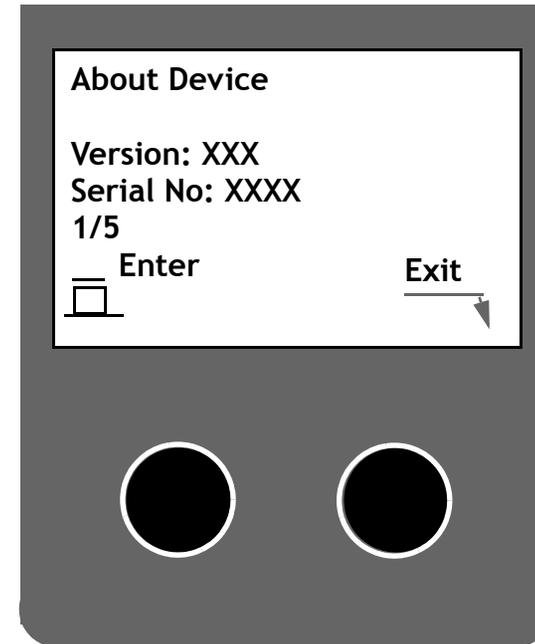
Printing Through the Serial Connection

(Connection Port on ALERT J5 to RS 232 Serial Port on Printer)

1 Connect the Serial Cable to the right side of ALERT J5 for Serial Printing.

2 Connect the other end to the TP-UP-PN Printer Serial Port. (underside of unit. - see P.18)

3 Select Print option from the LCD menu after performing a test or using the test archive.

Menu Function	What Does it Do ?
Shut Down	ALERT J5 can be set to shut off with a range of times. Set with the Shut Down Menu.
Date & Time	This function displays Date & Time.
About Device Info	Displays Serial Number, BAC Format, Warn and Fail Settings, Calibration Solution Setting.
Language	English is standard. Other languages pending.
Configuration	Time Format/Backlight/Auto Shutdown can be customized according to preferences.
Application (optional)	This function allows access to Alarm Settings and the Stopwatch. There are 2 alarms to wake up the unit to pre-warm the sensor. Set by scrolling with the right button and left to select.
Device Tests	As described on the previous page.
Settings	This is a factory set option for subject blow duration and calibration measured in hPa.
Test Recall	This function allows printing of the stored BAC test results directly from the ALERT J5 Handset. The right button allows scrolling through the sub-menus to find the range of tests. Pressing the left button will access the preferred test result for printing.
Service	This menu requires a 4 digit access code and is designed for use by a trained technician.
Help	This Menu assists the user with learning the symbols on the ALERT J5 to use the tester properly. The following sub-menus appear: Button / Menu / Record / Page, each of which explains how to navigate with the ALERT J5 Menu.

About Device

Version: XXX
Serial No: XXXX
1/5
Enter   Exit

Top of ALERT J5 LCD Display

About Device allows the user to confirm operation settings for the ALERT J5.

Action:
Use the left button to scroll and select the preferred Menu.

Right button allows the user to exit.

Note:

There are 6 "About Device" Screens to confirm operational parameters.

About Device

BAC / BrAC: mg %
2/5
Enter   Exit

About Device
         Warn: 020 mg %
         Fail: 040 mg %
3/5
Enter   Exit

Cal Exp.
Date Stamp
# of Tests
4/5
Enter   Exit

Cal Solution

         050 mg %
5/5
Enter   Exit