

ALCOLOCK™ LR

ALCOHOL INTERLOCK



Instruction manual

Alcohol Countermeasure Systems

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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.

To comply with Radio Frequency (RF) exposure requirements, a separation distance of at least 20 cm must be maintained between the antenna(s) of the Electronic Control Unit (ECU) and all persons.

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.

Intellectual property

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Modifications

The manual and the device, inclusive of the software and firmware included herewith, may not be copied, modified, made the subject of a derivative work, reverse-engineered, decompiled, disassembled or used for the purpose of the creation of source code.

No Warranty

Nothing contained in this manual or any other document shall be construed to create an express or implied warranty of any kind whatsoever with respect to the Device or the manual.

All Rights Reserved

All applicable rights in the Intellectual Property shall remain with ACS.

Trade marks and Trade names

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Revisions

ACS reserves the right to make revisions to the manual and the Device, inclusive of accessories, parts, software and firmware, without notification.

Device

In this document, any reference to ALCOLOCK LR alcohol interlock device, "LR device", "alcohol interlock device", or "device" shall be understood to be a reference to the Device.

Operation

ACS breath alcohol testers are designed to provide accurate test results when used with our certified mouthpieces. Compliance with product certification is dependent upon the use of ACS parts. Using a mouthpiece that is not produced by ACS may affect the product certification by causing inaccurate readings.

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ALCOLOCK LR handset components

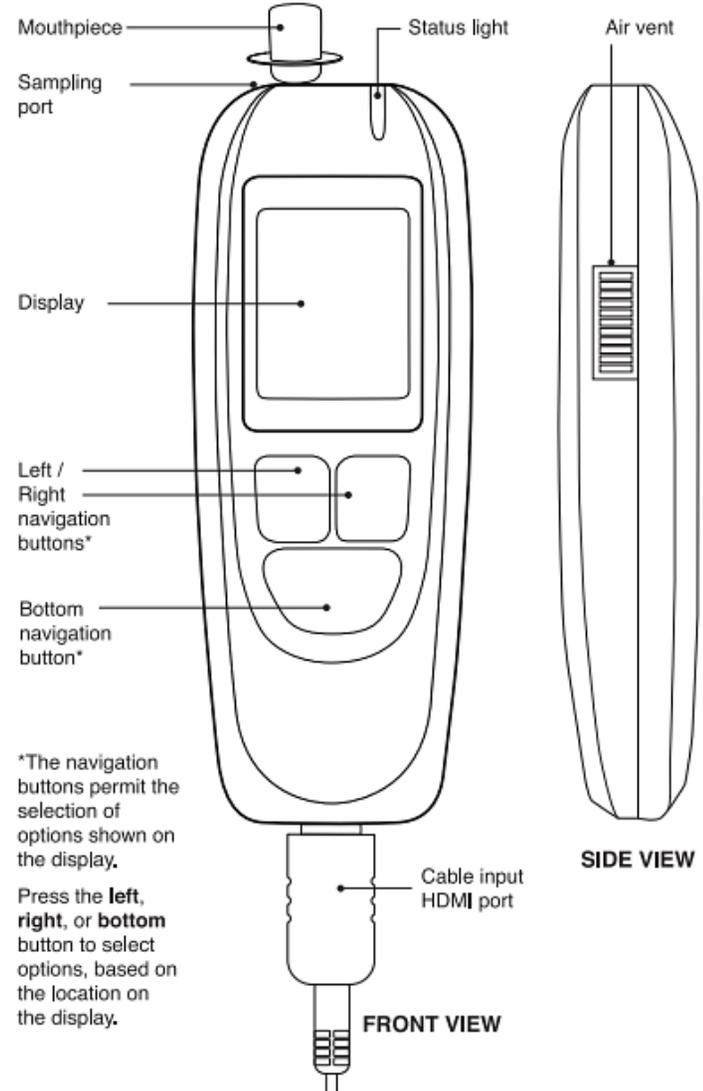


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Safety and precautions

The ALCOLOCK LR alcohol interlock device has been designed for ease of operation. For safe, correct and effective use of the device it is essential to read and strictly follow the instructions contained in this document.

NOTE: *The ALCOLOCK LR device WILL NOT shut off your vehicle during operation.*

Before providing a breath sample

- Do not eat or drink anything other than water or smoke for at least 15 minutes. These actions may contaminate the breath sample. Swish and swallow fresh water to remove any contaminants from the mouth and throat.
- Do not use windshield washer fluid for at least 10 minutes or use any aerosol air fresheners, disinfectants, cologne, perfume or hand sanitizer in the vehicle, as these can also contain alcohol.
- Do not perform a breath test while the vehicle is in motion. Pull over before taking the test and provide an accepted breath sample with a PASS result before you resume driving.
- Keep all radio frequency transmitting devices (such as mobile phones or laptops) away from the device to minimize interference, particularly when performing a test.

Mouthpiece hygiene

- Always use a new mouthpiece before each use for hygiene reasons and to avoid excess moisture from the breath sample. Using a contaminated mouthpiece may affect the results of the breath test.
- Never blow directly into the sampling port.

Tampering

- Do not attempt to tamper with or circumvent the device. Any indication of tampering or attempt to remove the tamper label in place may result in a program violation.

Device care

- Keep the device clean and dry at all times.
- You are liable for any damage from misuse, abuse or neglect of the device.
- If liquid spills onto the handset remove any liquid with a cloth and allow it to dry thoroughly. If there is substantial moisture damage, do not activate the handset. Contact your service provider.

Storage conditions

- When not in use, store the handset in a warm, dry environment. Always bring the handset indoors, especially in cold weather.
- Ensure that the handset is stored away from direct sunlight and contact with water.
- Do not store mouthpieces in a cold area before use. They may collect condensation, which may increase the chance of moisture entering the handset during a test.

Handset cleaning

- If required, clean the handset with a damp cloth and mild soap.
- Do not use abrasive cleaners or solvents on the handset.

Ordering mouthpieces

Contact your service provider to order additional mouthpieces.

Disposal of device at end of service life

Return to an authorized service center for removal of the device from your vehicle. Following the removal, proper disposal of the device (ECU, handset and cables) at the end of its service life will be done by the manufacturer.

Installation

Installation and service of the alcohol interlock device must be done at an authorized ALCOLOCK service center by certified personnel. Unqualified installation may affect the safety and reliability of the vehicle.

Service centers are conveniently located, the ALCOLOCK LR device will be installed while you wait. You will receive full training on site on the use of the device and compliance with the program.

Service

You must visit an authorized service center on a prescribed schedule specified by your jurisdiction for monitoring and calibration. The alcohol interlock device will remind you of your next scheduled service appointment several days prior. If you do not attend your service appointment the device will lock out and you will not be able to start the vehicle.

Monitoring appointments are completed while you wait.

Product overview

The ALCOLOCK LR controls the normal operation of a vehicle through connections with the power, starting and control systems. To start the vehicle, the driver must provide an accepted breath sample with an alcohol concentration below the preset limit. During the operation of the vehicle, the driver will need to provide additional breath samples to ensure continued compliance with program requirements.

Operating temperature

The ambient operational temperature range is -45 °C to +85 °C (-49 °F to +185 °F).

NOTE: The handset will display "Ready for Test" in:

- 15 seconds at +20 °C (+68 °F)
- 60 seconds at 0 °C (+32 °F); and
- up to 3 minutes at -20 °C (-4 °F)

It would be beneficial to keep the handset in a warm environment prior to use.

Power off

To manually power off the device, press and hold the left and right navigation buttons at the same time until the screen is blank.

To power on the device, press any navigation button.

Using the ALCOLOCK LR

Connecting the handset

1. Ensure that the ignition switch is in the OFF position.
2. With the back of the handset facing you, hold the cable connector with the "PUSH" button facing you. Align the cable connector with the receptacle on the handset and carefully insert.



3. The connector will latch if the pins are properly aligned.

WARNING!

- Do not force a misaligned connector, pull the cord or turn the connector, as doing so may damage the connector.
- Never provide a retest while driving. Always bring the vehicle to a safe stop off the roadway before attempting a retest. You will have several minutes to do this.

Disconnecting the handset

1. Ensure that the ignition switch is in the OFF position.
2. With the back of the handset facing you, hold the connector by the plug, then press and hold the "PUSH" button.



3. Gently pull the cable connector to disengage from the handset.

WARNING! The handset should never be removed while the vehicle engine is running. If the handset is disconnected for any reason while the engine is running, bring the vehicle to a safe stop off the roadway before attempting to reconnect the handset.

Performing a breath test

WARNING! DO NOT attempt to switch on the ignition before providing a breath sample with a PASS result. Turning the key to the ignition ON position will cause the handset to display **Turn Key Off** and sound a tone which may result in a violation.



1. Power on the device by pressing any navigation button. The status light will flash amber. The handset will display **Wait...** until the device warms up.



2. The status light will flash green and the handset will display **Ready for Test**. The warm-up time may be longer in cold temperatures.

3. When the handset is ready for a breath test, insert a new mouthpiece into the sampling port on the top of the handset.



Slide the mouthpiece into place and turn slightly to secure it.



4. Blow moderately and continuously into the mouthpiece. The handset will sound a continuous tone to indicate adequate airflow and will display **Continue Blowing**.

If you are not blowing correctly, a tone will sound and a message will appear on the display indicating the necessary corrective actions.

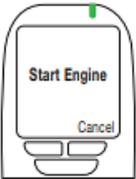
DO NOT ATTEMPT another breath test until the handset displays **Ready for test**.

5. While blowing you will hear a click, **DO NOT** stop blowing, continue until the tone ends. The handset will display **Wait...** as the breath sample is being analyzed.



6. The result of the breath alcohol test will be indicated in three ranges with messages and actions as outlined below:

a. If no alcohol is detected, the status light will be solid green to indicate a **PASS** result and the handset will display **Start Engine**.



You may start the vehicle engine within the prescribed period of time, otherwise the handset will revert to **Ready for Test**.

b. If alcohol is detected below the FAIL set point, the status light will be solid amber and the handset will display **Caution**.



You must acknowledge that alcohol has been detected by pressing the bottom navigation button before starting the vehicle engine.

[This is an optional feature to be set by the jurisdiction.]

When the device detects the engine running, the status light will be solid green and the handset will display **Drive Safely**. You may now drive the vehicle.



c. If alcohol is detected at or above the FAIL set point, the status light will be solid red and the handset will display **Lockout xx:xx (min)** to indicate the wait time before attempting another breath test.



You may **NOT** start the vehicle engine. Wait for the countdown timer to end and the handset to display **Ready for Test**.

WARNING! Do not attempt another breath test until you are certain that your breath alcohol concentration is below the FAIL set point. A second or subsequent FAIL test result will cause another lockout period and may result in a program violation.

Performing a retest

Additional breath tests are required at random time intervals to ensure that the driver has not consumed alcohol since the vehicle was started.

1. The status light will be flashing green, a tone will sound and the handset will display **Retest**.



You must provide an accepted breath sample within the prescribed period of time.

WARNING! Failure to provide a retest breath sample may result in a program violation and a recall for unscheduled service.

2. Perform the breath test (refer to the section *Performing a breath test*).

3. Observe the message displayed on the handset:

a. If the status light is solid green and the handset displays **Drive Safely**, no alcohol was detected and you may continue to drive the vehicle.



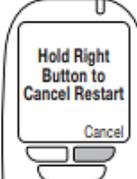
b. If the status light is solid amber and the handset displays **Drive Safely**, alcohol was detected below the FAIL set point. You may continue to drive the vehicle.



c. If the status light flashes red, a tone sounds and the handset displays **Pull Over, Turn Off Engine**, the device has detected alcohol at or above the FAIL set point.



You must safely park the vehicle and turn the ignition off. **Hold Right Button to Cancel Restart** will display on the handset. Press the right navigation button to cancel the restart option.



4. The status light will be solid red and the handset will display **Lockout xx:xx (min)** to indicate the wait time before attempting another breath test.



You may **NOT** start the vehicle engine. Wait for the countdown timer to end and the handset to display **Ready for Test**.

WARNING! Do not attempt another breath test until you are certain that your breath alcohol concentration is below the FAIL set point. A second or subsequent FAIL test result will cause another lockout period and may result in a program violation.

Restarting the vehicle

If the vehicle engine stalls or if the ignition is turned off for a short period of time, it may be restarted without providing a breath sample. This safety feature permits a quick restart of the engine.

Observe the messages displayed on the handset:

a. If **Restart Available** is displayed, the vehicle engine may be restarted without providing a breath sample.



Otherwise, press and hold the right navigation button to cancel the restart option, or it will end after a prescribed period of time.

b. If **Ready for Test** is displayed, provide an accepted breath sample with an alcohol concentration below the preset limit before attempting to start the vehicle engine.

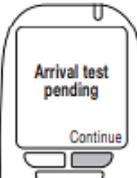


Arrival test

[This is an optional feature subject to jurisdictional requirements.]

A final breath test is required when you have completed your journey and turned the ignition off.

1. The handset will sound a tone and display **Arrival test pending**. Press and hold the right navigation button to continue.



2. The status light will flash green and the handset will display **Breath test required.** Provide an accepted breath sample.



WARNING! Failure to complete the arrival test may result in a program violation and a recall for unscheduled service.

a. If no alcohol is detected, the status light will be solid green to indicate a PASS result and the handset will display **Arrival test completed.**



b. If alcohol is detected below the FAIL set point, the status light will be solid amber to indicate caution and the handset will display **Arrival test completed.**



c. If alcohol is detected at or above the FAIL set point, the status light will be solid red and the handset will display **Lockout xx:xx (min)** to indicate the wait time before attempting another breath test.



WARNING! A subsequent FAIL test result will cause another lockout period and may result in a program violation and a recall for unscheduled service.

Warm-Up and Standby

[These are optional features subject to jurisdictional approval.]

1. If applicable, the ALCLOCK LR device may be placed in **Warm-Up** mode by pressing and holding the left navigation button when the engine is running after an initial PASS breath test result while the vehicle remains parked.



2. Warm-up is displayed and the vehicle engine can remain idling without requiring another breath test for the prescribed period of time (default is 30 minutes).



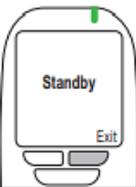
After the prescribed period of time, the **Warm-Up** mode automatically ends, or manually exit **Warm-Up** mode by pressing and holding the right button or pressing the accelerator pedal.

Upon exit from **Warm-up**, a **Retest** is required.

The **Standby** mode is similarly available. When the vehicle is safely parked and idling, press and hold the left navigation button to enter the **Standby** mode.



Standby is displayed and the vehicle engine can remain idling without requiring another breath test for a prescribed period of time (default is 30 minutes).



Exit **Standby** in the same manner as for **Warm-up**, after which a retest is required.

Service Dates

1. To view important service dates and times, press and hold the left navigation button to access the main menu.



2. Press the bottom navigation button to select the **Service Dates** option.



3. Press the left or right navigation button to scroll through all the dates. Press the bottom navigation button to exit this menu.



4. Press and hold the bottom navigation button to exit the main menu.



Reset codes

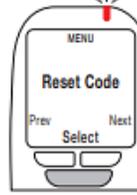
If the device initiates a **Recall** or **Permanent Lockout**, a program violation has occurred. Contact your service provider for assistance.

A reset code is available to drive the vehicle to a service center for unscheduled service.

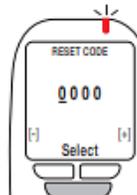
1. Press and hold the left navigation button to access the main menu.



2. Press the left or right navigation button to scroll to **Reset Code**. To select, press the bottom navigation button.

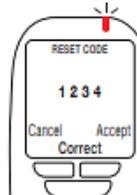


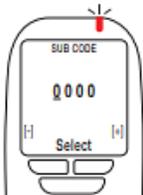
3. Press the left or right navigation button to set the first digit of the reset code. Press the bottom navigation button to select.



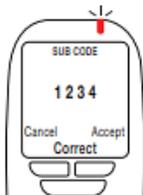
Input the second, third and fourth digits in the same manner.

4. After the four-digit reset code is entered, press the bottom navigation button to select, then press the right navigation button to accept.





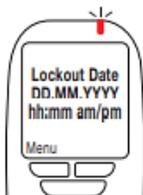
5. If the reset code was input correctly, the handset will display **SUB CODE**.



6. Enter the four-digit sub code in the same manner. When complete press the bottom navigation button to select, then press the right navigation button to accept.



7. Observe the message displayed on the handset:
 a. The handset will display **Ready for Test** and status light will flash green.



b. When the vehicle engine is started, the handset will display **Lockout Date** for the new date and time for the pending lockout. The status light will flash red and the handset will sound a tone.

WARNING!

- Attempting to circumvent these codes will result in a program violation.
- Contact your service provider if the vehicle requires garage maintenance to prevent the occurrence of a violation.

Troubleshooting

The following table lists occurrences, together with possible solutions. For other occurrences, contact your service provider.

IF THE ALCOLOCK LR ...	YOU SHOULD ...
Will not turn on	Check the vehicle battery
Handset displays an error code	Refer to the "Error Messages" section of this manual
Handset displays an Early Recall or Immediate Recall	Contact your service provider
Aborts a breath test	Retry the test or contact your service provider
Is in Permanent Lockout	Contact your service provider
Requires service	Contact your service provider

Error messages

The ALCOLOCK LR device may not accept a breath test (and may display error messages instead). To minimize errors, make sure the handset is connected properly, the vehicle battery is in good condition and mobile phones are not in use during breath tests.

The following table lists error messages displayed on the handset together with required actions.

MESSAGE	DESCRIPTION	WHAT TO DO
Abort 30, 40, 50	There is a problem with the handset.	Try the test again. If the message persists, call your service provider.
Early Recall or Immediate Recall	A service reminder is displayed, followed by a service lockout. Refer to your Compliance guide for details.	Call your service provider to schedule an appointment.
Missed Retest	A retest was not completed within the set time. A recall may follow.	Complete the test as required.
Missed Service	A service request was not observed within the set time (refer to your Compliance guide).	Call your service provider to schedule an appointment.
Permanent Lockout	The service request time and grace period have expired. The vehicle engine cannot be started until the device is reset by the service provider.	Call your service provider to schedule an appointment. Towing the vehicle may be required.
Pull Over, Turn Off Engine	Occurs in response to a failed retest.	The driver has a set time to safely stop the vehicle and turn the ignition off.
Service Due	A reminder that a service appointment is coming up.	Arrive at the scheduled date and time to avoid any program violations.
Start Violation	If the vehicle engine is started without first providing a breath test with a PASS result, Start Violation is displayed and a retest request occurs.	Take the breath test and contact your service provider.
Try Again	There is a problem with the test.	Provide the breath test again. Call your service provider if the problem persists.
Turn Key Off	The ignition key is in the ON position before first providing a breath test.	Turn the key to the OFF position and provide an accepted breath sample. Not turning the key off may result in a violation.

Glossary

Administering authority: the court, driver licensing, or other government department that is responsible for administration of the alcohol interlock program.

Alcohol interlock: a device that controls the operation of the vehicle in relation to the BAC of the driver.

Accepted breath sample: a forced expiration of breath into the device fulfilling the requirements of pressure and flow.

BAC: blood alcohol concentration.

BAC limit: a limit for blood alcohol concentration set by the administering authority, at or above which a FAIL breath test will be registered.

Circumvention: an attempt to bypass the device, whether by providing samples other than the natural unfiltered breath of the driver, starting the vehicle engine without using the ignition switch, or any other act intended to start the vehicle without first providing an accepted breath sample.

Electronic Control Unit (ECU): part of the ALCOLOCK device, connected with the vehicle power and control circuits and to the handset.

FAIL breath test: an accepted breath sample with an alcohol concentration at or above the BAC limit.

Handset: part of the ALCOLOCK device that is used to conduct breath alcohol tests and communicate with the driver.

Lockout: an event which causes the device to prompt the participant to return the vehicle to an authorized service center within a prescribed period of time for unscheduled service.

Missed breath test: the absence of an accepted breath sample within the breath test time interval.

Participant: the driver who is participating in the program subject to the conditions of the administering authority.

PASS breath test: an accepted breath sample with an alcohol concentration below the BAC limit.

Program: the requirement to operate only a vehicle equipped with an approved alcohol interlock device during a period of driver license restriction including monitoring and compliance with conditions.

Recall (immediate or early): a condition entered by the device which must be reset at an authorized service center before the set date or the device will enter a permanent lockout. Recalls arise from program violations or service matters.

Retest: additional breath tests that are requested at random time intervals after starting the engine and while the vehicle is in operation.

Service: the installation, periodic monitoring, violation reset, calibration, data retrieval and removal of the device.

Service center: an authorized facility that provides program services for participants, including: training of participants, installation, monitoring, calibration and removal of the device.

Service provider: a party authorized by ACS to offer program services to participants.

Tampering: an unauthorized change to, or interference with, the function of the device or its installation in the vehicle.

Program violation: events designated by the administering authority, such as FAIL breath tests, missed or FAIL retests, failure to observe the scheduled monitoring service appointment, and starting the engine without first providing an accepted breath sample with a PASS result.

Stand-by: a device feature that allows commercial vehicles to leave the vehicle idling for a period of time without a retest request.

Warm-up: a device feature that allows the user to warm-up the vehicle for a period of time after providing a PASS breath test without a retest request.

Compliance guide

See jurisdiction leaflet for more information regarding program requirements.

Business Entities

ALCOLOCK is the manufacturer of the Breath Alcohol Ignition Interlock Device (BAIID) scheduled for Install into your vehicle. Safe Streets Interlock is the Authorized Service Provider (ASP) for ALCOLOCK. This means we use ALCOLOCK products, schedule appointments and communicate with your service center, process payments and ensure they are entered into your account, and provide your monthly Monitor and Calibration services.

Training

Prior to your Installation appointment, please ensure that your vehicle is in good working order- particularly the battery. It is strongly recommended that you, and anyone who may drive the vehicle, view the video link below regarding the use of your Ignition Interlock device.

<https://youtu.be/DFxBuytMfFc>

It is further recommended that all drivers accompany you to the Install to receive direct information from your service center technician, and that each driver reads any additional documentation provided- particularly any state specific Compliance Guides and related instructions.

Changes to Client or Vehicle Information

Please note that your Client information (Name, DOB, DL#, Address and Phone) and your Vehicle information (Color, Make, Model, Year, Plate#, VIN# and Insurance) must be kept current in our system so that the correct data is uploaded to MI-SOS. If you move, acquire a new telephone number, change your Insurance, or receive new License Plates please contact us to update your account; you are our only resource for this information.

Vehicle Repairs

If your vehicle requires any repairs, please contact us *before* you or a mechanic conduct the repairs. Request that your account be noted with the repair date, location, and type of repair – even if you are conducting a simple repair yourself (such as replacing a vehicle battery) and ask if your state has specific vehicle repair reporting instructions.

Undocumented repairs may be interpreted by the state as attempts to tamper or circumvent the BAIID device.

~Safe Streets Interlock #651-400-7116



Safe Streets Interlock
Authorized BAIIID Service Provider
for ALCOLOCK
4101 Nicols Road, Eagan MN 55122
651-400-7116

The following is a list of consumer products that may contain ethanol, methanol, propanol, or isopropanol alcohol, and/or may cause issues with the device reading your breath sample. Consumption or use of these products by the driver and passengers are to be avoided minimally for 15 minutes prior to using the BAIIID, for the duration of time the vehicle is driven, and should never be stored in the vehicle. Remember that a BAIIID Handset is sensitive; it may detect alcohol, or products mimicking alcohol, even on your passengers or on items being transported in your vehicle. Be vigilant about avoiding use of the products below; failure to do so may result in multiple failed tests which may revoke your driving privileges.

Consumer Products:

Air Fresheners and Sprays, Disinfectants, Hand Sanitizer, Glass Cleaner, Insect Repellent, Pre-Moistened Towelettes, Windshield Washer Fluid, Adhesives and Adhesive Remover, Paint or Remover, Antifreeze, Insect and Tar Remover, Insecticides, Household Pesticides, Lock Deicer, Industrial Cleaning Products, Antiseptics, Art Supplies (dyes, fixatives, inks) and Degreaser.

Personal Products:

Cologne, Aftershave, Body Spray, Perfume, Deodorants, Cosmetics (including eye make-up) Hairspray, Mouthwash, Breath Spray, Breath Mints, Nail Polish and Nail Polish Remover, Lotion, Cold and Cough Medicine, Topical Dental Medications, Shampoos and Soaps, Sunscreen and Suntan Lotion, Cigarettes, Chewing Tobacco, Chewing Gum or Candy.

Food and Beverage:

Energy Drinks, Coffee Flavorings and Extracts (Almond, Lemon, Peppermint and Vanilla), Vinegars on Pasta and Sandwiches, Soft Drinks or Colas, Sauces, Cakes or other foods made with Alcohol, Baked foods with Vanilla Extract, Bread, Pizza, Donuts (pastries made with yeast), Salad Dressings containing Vinegar, Non-Alcoholic Beverages, Sparkling Water, Liquor, Wine and Beer.

Note: The items above do not represent an exhaustive list, rather they are intended to provide examples of products which should not be consumed or utilized prior to and while operating a BAIIID Handset.

Just as you may be required to click a box on a computer screen indicating you're 'not a robot', operating a BAIIID Handset requires the driver to both blow and hum into the device simultaneously when providing their breath sample. Persons with medical diagnoses such as COPD, Asthma, Anxiety, or related concerns may – or may not - have difficulty operating a BAIIID. Therefore, it is strongly recommended that drivers practice using the BAIIID Handset at the service center **BEFORE** any Installation of the equipment occurs. Once the Installation is complete, the service center is paid for their time regardless of whether the driver can operate the device.

Using a BAIIID Handset takes a time, practice, and patience. Successful completion of a BAIIID Program is most often the result of drivers' taking individual responsibility to make the necessary changes to their lifestyle as outlined above. Failure to do so can result in Violations that are automatically reported to the State, which can impact continued driving privileges and incur additional fees.

Hints:

*Placing your teeth on the mouthpiece and saying the word 'Who' may help provide the correct blow + hum.

*When asked to blow Longer or Harder, remember it is equally important to provide a steady breath sample, and to continue blowing until after a 'click' is heard.

*It may be helpful to roll windows down for 30 seconds before taking a Rolling Retest if you have just used your windshield washer solvent.

*Stay calm. It helps you provide the proper length breath sample.