

ALCOLOCK™ L OEM

ALCOHOL INTERLOCK



Instruction Manual

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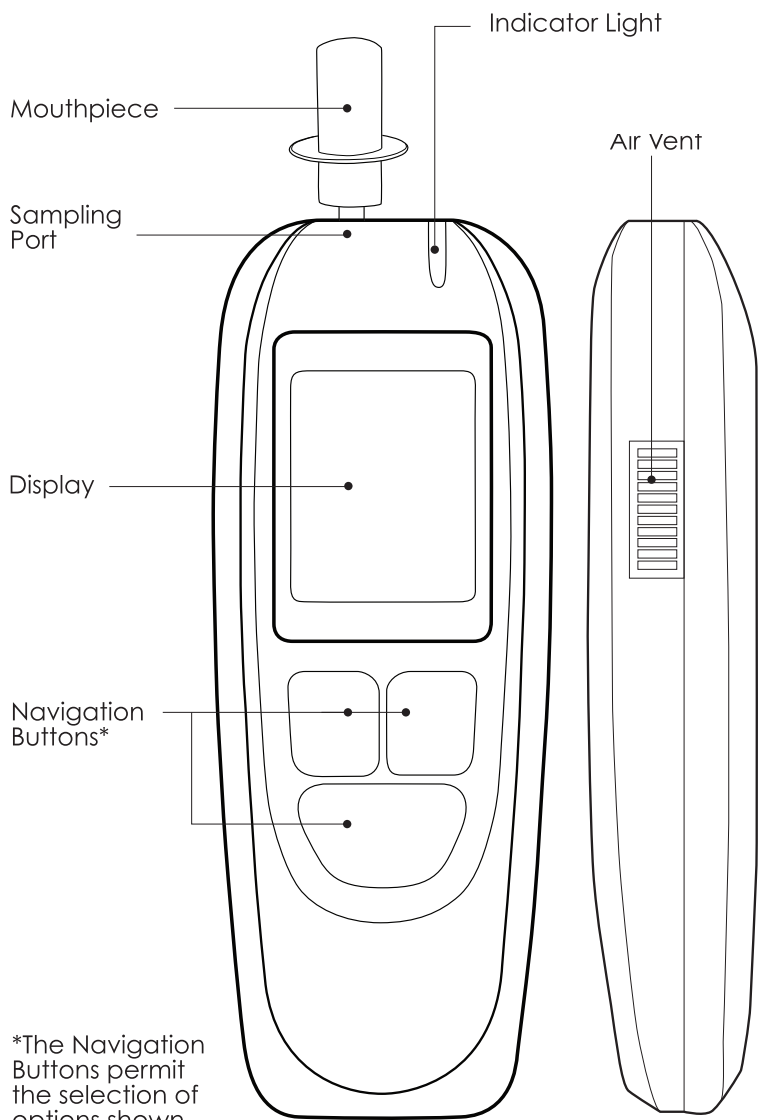
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ALCOLOCK L OEM HANDSET COMPONENTS



*The Navigation Buttons permit the selection of options shown on the display.

Press the Left, Right, or Bottom button to select options, based on the location on the display.

FRONT VIEW

SIDE VIEW

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PRODUCT PROFILE

The ALCOLOCK L OEM alcohol interlock device controls the normal operation of a vehicle through connection with the power, starting and control systems. To start the vehicle engine, the driver must provide an accepted breath test with an alcohol concentration (BrAC) below the preset limit. The ALCOLOCK L OEM alcohol interlock device will never cause the vehicle engine to stop.

The ALCOLOCK L OEM device consists of a handset to conduct breath alcohol tests and to communicate with the driver, and an Electronic Control Unit (ECU) that is connected with the power and control circuits of the vehicle.

WARNING!



- Do not disassemble the ALCOLOCK L OEM device. Doing so may damage the components within and void the warranty
- Do not attempt to tamper with the installation or to circumvent the ALCOLOCK L OEM device
- Do not attempt to drive after consuming alcohol. This is an unsafe practice

SAFETY AND PRECAUTIONS

The ALCOLOCK L OEM alcohol interlock has been designed for easy and safe operation. The device is to be used only for the purposes specified herein. To help ensure your safety, you must follow these precautions:

- Always use a clean mouthpiece for good hygiene and to trap any foreign matter or excess moisture from the breath sample
- Do not store mouthpieces in a cold area before use. They may collect condensation, which may increase the chance of liquid entering the handset during a test
- DO NOT perform a breath test while the vehicle is in motion. Provide an accepted breath test before you resume driving
- Do not eat, drink or smoke for at least 15 minutes before the test. This may contaminate the breath sample. Swish and swallow fresh water to remove any contaminants from the mouth
- Avoid exposing the handset to direct sunlight for extended periods of time
- If liquid spills onto the handset, remove with a cloth and allow the handset to dry thoroughly. If there is substantial moisture damage, do not activate the handset. Contact your local Service Centre
- Keep all radio frequency transmitting devices (such as mobile phones or laptops) away from the ALCOLOCK L OEM device to minimize interference, particularly when performing a test
- Do not attempt to tamper with or to circumvent the device

NOTE: The ALCOLOCK L OEM device WILL NOT shut off your vehicle during operation.

GETTING STARTED

ALCOHOL INFLUENCE ON TESTING



WARNING! Drinking alcohol and eating foods containing alcohol may cause a failed alcohol test.

Some factors that may affect the results of a test (because of possible residual alcohol in the mouth) are consumption of medicines, drops, gum, smoking, and using mouthwash or mouth spray. Swish and swallow fresh water to remove any contaminants from the mouth.

Do not eat, smoke or drink for at least 15 minutes before taking a test.

Before taking a test, refrain from using windshield washer fluid for at least 10 minutes or using any aerosol air fresheners, disinfectants, cologne or perfume in the vehicle, as these may also contain alcohol.

NOTE: The above list of factors that may affect a breath test result is not exhaustive. There are additional items that may also affect the results. To avoid incorrect results, follow this guide carefully and consult the dealer.

TERMS USED IN THIS MANUAL

- BrAC = Breath alcohol concentration
- Preset Limit = Set according to local regulations
- ECU = Electronic Control Unit
- HDMI = High Definition Multimedia Interface
- Service Centre = Alcohol interlock service garage

MAINTENANCE

During field use, handle the ALCOLOCK L OEM device with care and keep it clean and dry at all times. Clean the handset with a damp cloth and mild soap. Do not use abrasive cleaners or solvents.

OPERATING TEMPERATURE

The ambient operational temperature range is -40°C and +85°C.

NOTE: The handset will warm up in about 30 seconds at +20°C; about 50 seconds at 0°C and up to 2 minutes at extreme cold temperatures (-20°C) to be operational. It would be beneficial to keep the handset in a warm environment prior to use.

BATTERY VOLTAGE

The vehicle battery supplies power to the ECU, which in turn powers the handset.

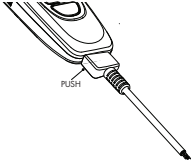
The ALCOLOCK L OEM device operates within the vehicle battery range of 9V to 32V.

HANDSET CABLE

The handset cable connects the handset to the ECU, which is connected to the vehicle.

The handset should remain connected at all times, but follow these steps if the handset needs to be removed:

TO DISCONNECT THE HANDSET

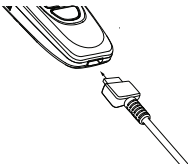


1. Make certain that the vehicle engine is off.
2. With the back of the handset facing you, hold the connector by the plug and press and hold the "PUSH" button.
3. Gently pull the handset connector to disengage the connection.



WARNING! Disconnection of the cable when the engine is running is unsafe.

TO CONNECT THE HANDSET

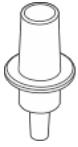


4. Make certain that the vehicle engine is off.
5. Turn the handset so that its back is facing you. Hold the cable connector with the "PUSH" button facing you. Align the cable connector pins (silver plate) to the handset connector and carefully insert the connector.
6. The connector will latch if the pins are properly aligned.

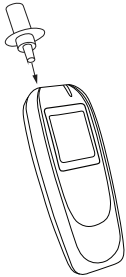


WARNING! Do not force a misaligned connector, pull on the cord, or turn the connector, as doing so may damage the device. If the device is damaged, you may not be able to take a breath test, in which case you may not be able to start your vehicle.

INSERTING THE MOUTHPIECE



When the handset is ready for a breath test, remove a new mouthpiece from the wrapper and insert as shown below:



Insert the mouthpiece into the sampling port on the top of the handset. Slide the mouthpiece into place and turn it slightly to secure. Do a visual check to make certain that the mouthpiece is fitting properly.

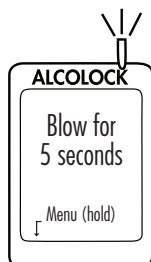


WARNING! Using a contaminated mouthpiece may affect the results of the breath test.

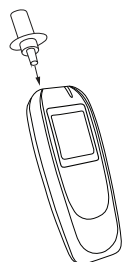
PERFORMING A TEST



Power up the device by pressing any navigation button. A **Wait...** message will remain on the display until the handset warms up. The indicator light will flash amber.



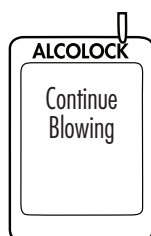
The indicator light flashes green and the handset displays **Blow for 5 seconds** when it has reached its optimal temperature. The warm-up time may be longer in cold temperatures.



NOTE: Do not store mouthpieces in a cold area before use. They may collect condensation, which may increase the chance of liquid entering the handset during a test.

Insert a clean mouthpiece.

NOTE: Do not eat, drink or smoke for at least 15 minutes before the test. This could contaminate the breath sample. Swish and swallow fresh water to remove any contaminants from the mouth.



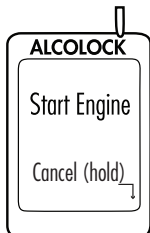
Blow moderately and continuously. The handset makes a tone to indicate accepted airflow, and will display **Continue Blowing**. If you are not blowing correctly, a message will appear on the display indicating the necessary corrective action. DO NOT attempt another breath test until the display indicates **Blow for 5 seconds**.



When an accepted breath test has been delivered, you will hear a click – continue to blow until the tone ends. The display will indicate **Wait...** as the breath sample is being analyzed.

RESULTS DISPLAYED

A beep tone sounds and the display indicates one of the following messages:



1. **Start Engine** – You have passed the breath test, and no alcohol has been detected. You may start the vehicle engine.

NOTE: You must start the vehicle engine within 5 minutes (programmable value).

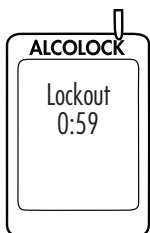


2. **Caution** – (BrAC limit warning) You have passed the breath test, but alcohol (below the preset limit) has been detected. You have two options:

- Wait five minutes and try the test again if you are certain that there is no alcohol in your system
- Press the bottom button to acknowledge that you intend to drive with alcohol in your system. You must start the vehicle engine within 5 minutes (programmable value)



WARNING! You may proceed to drive, with the knowledge that alcohol has been detected.



3. **Lockout** – The breath alcohol level detected is at or over the preset limit. You may NOT start the vehicle engine. **Lockout** and a countdown timer are displayed. Wait for the countdown to finish before attempting another breath test.



WARNING! Do not attempt another breath test until you are certain that your alcohol level is under the preset limit. A second failed breath test may result in a longer lockout time.

RESTART WITHOUT A BREATH TEST

If the vehicle engine is turned off, you may restart it without providing another breath test, for 30 minutes (programmable value). This safety feature is helpful if the vehicle engine stalls or if you have to stop frequently.

Before restarting the vehicle engine, observe one of the following messages on the display:

RESTART AVAILABLE

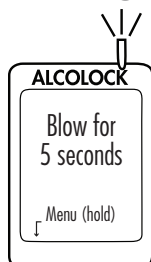


You may restart the vehicle engine without providing another breath test.

Once you start the engine, **Drive Safely** is displayed.

To cancel the restart, press and hold the right navigation button. Wait will display and the indicator light will flash amber. After a few seconds, **Blow for 5 seconds** will display and the indicator light will flash green.

READY FOR TEST



The restart period has expired. You need to provide an accepted breath test to start the vehicle engine.

PERFORMING RETESTS (OPTIONAL)

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



The handset beeps and displays **Retest**. The indicator light will flash green.

The retest request timer will activate and give you sufficient time to stop in a safe location. DO NOT perform a breath test while the vehicle is in motion.

Once a retest is taken, one of the following messages will appear on the display:

DRIVE SAFELY



You have passed the breath test. You may continue driving.

PULL OVER, TURN OFF ENGINE



This screen will appear if a retest has been failed when the engine is running. The indicator light flashes red and a tone is heard. You have failed the breath test. The alcohol level detected is over the preset limit. Park in a safe location and turn the vehicle engine off.

When the vehicle engine is turned off, the **Restart Available** message will be displayed. This will permit the vehicle engine to be restarted if the vehicle must be moved to a safer location. When the vehicle is parked in a safe location, the **Restart Available** message may be cleared by pressing the right navigation button.



Lockout and a countdown timer are displayed. Wait for the countdown to finish before attempting another breath test. You cannot start the vehicle engine until an accepted breath test is provided.



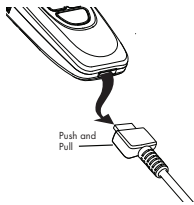
WARNING! Do not attempt another breath test until you are certain that your alcohol level is under the preset limit. A second failed test may result in a longer lockout time.

SHARING A VEHICLE

Drivers with their own handset can operate the same vehicle without reprogramming the ALCOLOCK L OEM device. All the custom settings are downloaded into the ECU when a new handset is connected.

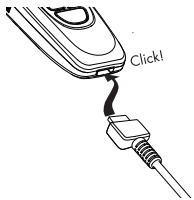
The handset can be changed with the motor on or off.

It is recommended to exchange handsets when the motor is off and the vehicle is parked at a safe location.



1. Pinch the connector and pull the cable away from the handset to disconnect.

WARNING! Do not pull on the handset cord. It requires just a gentle squeeze on the release tab to disconnect.



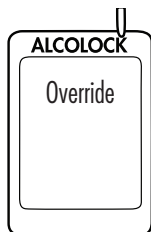
2. If the motor is running, the ECU beeps every 15 seconds until the handset is reconnected. If the motor is off the ECU will not beep.
3. Reconnect the handset to the handset cable. It makes a click sound if it is properly connected.

All the handset settings are downloaded to the ECU.

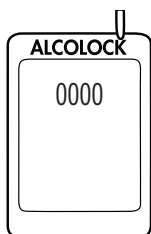
NOTE! If the handset is replaced while the motor is running, a breath test is required.

OVERRIDING THE INTERLOCK

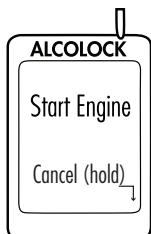
In emergency situations, the alcohol interlock can be overridden using a four-digit Override Code provided by your dealer. This code is randomly generated and changes daily. The use of the override function is stored in the log.



1. Press and hold the left button to access the Main Menu. Press the left button to scroll to **Override**. Select with the right button.



2. Use the right button to increase the number and the left to move digits. Once entered, press the left button to move to **OK?** and press right button to Select.



3. The handset beeps and displays **Start Engine**. A breath test will be required again the next time the engine is started.
If the code is incorrect, the handset beeps and there is no action. Verify the code is correct and re-enter.

MENU OPTIONS

The ALCOLOCK L OEM device Main Menu contains a number of selectable options, such as wake-up / sleep times and language selection; these may be accessed from the **Blow for 5 seconds** screen by pressing and holding the left button on the handset.

DATES

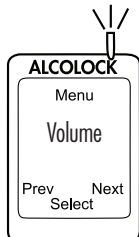


1. To view important dates and times, press and hold the left button to access the Main Menu.
2. Press the left or right button to scroll to **Dates**. To select, press the bottom button.
3. Press the left or right button to scroll through all of the dates in the list. Dates available to view include Service, Lockout, Calibration, Cal. Expiry and the current date.
4. Press the bottom button to exit this mode.

VOLUME

The handset uses audio tones. The volume of the tones is set from the Main Menu.

NOTE! The volume setting is for the handset only. The volume of the ECU cannot be set.



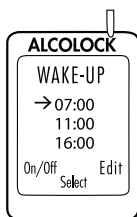
1. Press and hold the left button to access the Main Menu. Press the left or right button to scroll to **Volume**. To select, press the bottom button.
2. Use the left and right buttons to adjust the volume up or down.
3. Press the bottom button to save the setting and exit the Volume menu.

WAKE-UP MODE (OPTIONAL)

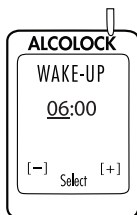
The ALCOLOCK L OEM handset may be set for up to three wake-up times per day. This helps to ensure that the handset is warmed up and ready before you enter the vehicle.



1. Press and hold the left button to access the **Main Menu**. Press the left or right button to scroll to **Wake-Up**. To select, press the bottom button.



2. Press the bottom button to scroll to a Wake-Up time. Press the left button to turn a time on or off. Press the right navigation button to edit a time.



3. Press the left or right button to change a digit, and press the bottom button to move the cursor from hour to minute.
4. Press the bottom button to save your selection. Press the left button to exit this mode.



WARNING! Before using Wake-Up mode, make certain that the vehicle battery has sufficient charge.

WAKE-UP mode is automatically disabled if the handset has not been used for three consecutive days.

SLEEP MODE

The ALCOLOCK L OEM device enters Sleep mode when the vehicle engine is off to conserve the vehicle battery.

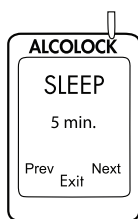
To enter Sleep mode manually, park in a safe location and turn the vehicle engine off. Press and hold the right navigation button to cancel the **Restart Available** screen.

When **Blow for 5 Seconds** is displayed, press and hold the left and right buttons until the screen is blank.

The ALCOLOCK L OEM device also allows you to set the time at which Sleep mode will automatically activate.



1. From the **Blow for 5 seconds** screen, press and hold the left button to access the Main Menu.
2. Press the left or right button to scroll to **Sleep**. To select, press the bottom button.

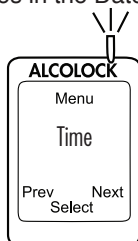


3. Sleep mode offers four pre-programmed times: 5, 30, 60 and 90 minutes. Press the left or right button to scroll to your choice.
4. Press the bottom button to save your choice and to exit the Sleep menu.

TIME

The time of the handset can be adjusted when changing time zones and daylight savings time.

This time adjustment is primarily for the Wake-up feature and does not change the times in the Dates menu.



1. Press and hold the left button to access the Main Menu. Press the left or right button to scroll to **Time**. To select, press the bottom button.
2. The current time is displayed with the option to increment the time by +/- 0.5 to 3.0 hours. Press the right button to increase the time [+] and the left button to decrease [-].
3. Press the bottom button to save the time setting and exit the Time menu.

LANGUAGE

The ALCOLOCK L OEM handset is available in multiple languages. The selections are programmed at the factory.



1. Press and hold the left button to access the Main Menu. Press the left or right button to scroll to **Language**. To select, press the bottom button.
2. Press the left or right button to scroll to your choice.
3. Press the bottom button to save your choice and to exit the Language menu.

EXIT



Go to this menu item to exit the Main Menu.

TROUBLESHOOTING AND SERVICE

ACCESSING MAINTENANCE FUNCTIONS

The ALCOLOCK L OEM system maintenance functions can only be accessed by your dealer using a System Code provided from ACS. This code is randomly generated and changes daily. The use of this function is stored in the log.

SERVICING THE VEHICLE

When the vehicle requires service and an interlock is installed, a Dealer Code provided from your dealer can be used to start the motor. This code is randomly generated and changes daily. The use of this code is stored in the log.

CALIBRATION

Yearly calibration is required to maintain optimum breath test accuracy. The handset displays a message 14 days before calibration is due. Calibration is performed with either a breath alcohol simulator or a gas alcohol reference.

TROUBLESHOOTING TABLE

The following table lists occurrences, along with possible solutions. For other occurrences, contact your dealer.

IF THE ALCOLOCK L OEM DEVICE ...	YOU SHOULD ...
Will not turn on	Check the vehicle battery
Displays an error code	Refer to the “Error Messages” section of this manual
Aborts a breath test	Retry the test, or contact your dealer
Is in Permanent Lockout	Contact your dealer
Requires service	Contact your dealer

ERROR MESSAGES

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

The following table lists and describes error messages along with required actions.

MESSAGE	DESCRIPTION	WHAT TO DO
Abort 30, 50	There is a problem with the handset.	Try the test again. If the message persists, call your dealer.
Missed Retest	A retest was not completed within the set time.	Complete the test as required.
Missed Service	A Service Request was not observed within the set time.	Call your dealer to schedule an appointment.
Permanent Lockout	The service request time has expired. The engine cannot be started until the alcohol interlock is reset by the Service Centre.	Contact your dealer. It will be impossible to start the vehicle otherwise.
Pull Over, Turn Off Engine	Occurs in response to a failed retest.	The driver has a set time to safely stop and turn the engine off. Wait 1 minute (programmable) before attempting another test.
Service Due	A reminder that a service appointment is coming up.	Arrive at the scheduled time to the appointment.
Start Violation	If the engine is started without first providing an accepted breath test, the Start Violation message is displayed and a retest request occurs.	Take the breath test and contact your dealer.
Try Again	There is a problem with the test.	Try the test again. Call your dealer if the problem persists.

TECHNICAL FEATURES

RESET CODES

Reset codes are used by service personnel to change the service dates, recall dates, lockout dates, and in emergency situations to override the ALCOLOCK L OEM device. These codes are randomly generated and change daily.

EMERGENCY OVERRIDE

The Emergency Override code is available for true emergency situations.

DEALER SERVICE

The repair shop enters a Dealer Service code when work needs to be done on your vehicle.

OTHER

Reset codes may apply in other circumstances. For example, a client might not be able to attend a service appointment.

DISPOSAL OF DEVICE AT END OF SERVICE LIFE

Return to your dealer for removal of the ALCOLOCK L OEM device from your vehicle. Following the removal, proper disposal of the device (ECU, handset, or both) at the end of its service life will be done by the Manufacturer.

ORDERING PARTS

Contact your dealer to order mouthpieces: ACS Part Number 95-000250

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SERVICE RECORD

DATE	SERVICE PERFORMED	INITIALS

DATE	SERVICE PERFORMED	INITIALS

DATE	SERVICE PERFORMED	INITIALS

