



Low Cost  
Interlock, LLC

1-800-352-4872

## LCI Co-Pilot™ User Instructions



**Note:** Please read and sign the form at the back of the book and return it to the correct monitoring authority.

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## FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio interference energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet or on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may also find helpful the following booklet, prepared by the FCC: “How to Identify and Resolve Radio-TV Interference Problems.” This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402.

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission rules.

## Safety

To protect against electrical shock and fire, maintain a secure connection of all components to the Co-Pilot™. Do not cut any cables connected to the Co-Pilot™ as this could result in electrical shock or fire. This device should only be serviced by qualified individuals.

Do not place the interlock where it is prone to damage: on the floor, under your ashtray, or where you can't see it or hear it. Also, do not expose the unit to moisture from liquids. You are responsible for damages due to negligence or abuse of the device.

Do not tamper with the device. This will result in additional charges and notification to appropriate monitoring authorities.

## Handset Mount

You have been provided with a handset mount to keep your device within easy reach and out of harm's way. If your mount needs replacing, contact our service personnel and we will provide a new one.

## Cleaning Cautions

Use only mild soap and water on a damp cloth to clean the outside of the unit. Solvent or chemical-based cleaners can damage the unit or result in false readings.

## Other Cautions

- Use the device only for its intended use as described in this manual.
- Do not immerse device in water or any other liquid.
- Never operate the device if it is not working properly, has been dropped or damaged, or if it has been immersed in any liquid.
- Except for mouthpiece, never insert any object into any opening.

- Do not use where aerosol (spray) products are being used or where oxygen is being administered.
- Do not store the device where it is exposed to direct sunlight or near a heater or other source of heat.
- Keep out of reach of children.
- Call 1-800-352-4872 for service or repair.

## Description

The Co-Pilot™ is a breath-alcohol ignition interlock device which requires the user to take and pass a breath test before the vehicle will start. If the breath alcohol sample submitted is at or above the preset fail level, the vehicle will not start.

The interlock device has no effect on the engine operation and cannot turn your engine off once it is running.

Anyone can drive your vehicle, but they must use the device, and YOU are responsible for all readings recorded by the device.

## Parts Listing

The Co-Pilot™ unit consists of three parts:

- The Co-Pilot™ device
- Mouthpiece
- Handset Mount

## LCD Display Indications

See [Table 1](#) for a complete list of LCD display indicators.

## Co-Pilot™ Operations

### Environmental Requirements

On cold nights we recommend to disconnect the head unit and bring inside so that the sensor in the head is at room temperature. Not doing so will not damage the unit, but will delay the readiness of the unit to accept a test until the sensor in the handset is at an acceptable temperature

### Step-By-Step Operation

#### Co-Pilot™ Mouthpiece Installation

The Co-Pilot has a keyed slot for the mouthpiece. The mouthpiece can be inserted in only one direction.



**Figure 1** Co-Pilot™ Mouthpiece Installation



The mouthpiece has a key along its underside. Align the key with the slot on the Co-Pilot and insert the mouthpiece until it is fully seated against the body of the Co-Pilot.



**Figure 2** *Co-Pilot™ Mouthpiece Key*



**Figure 3** *Properly Installed Mouthpiece*

## How to Take a Test

If you are the driver of the vehicle, letting someone else take a test for you is a program violation.

Before taking a test:

1. You must drink WATER prior to each and every breath test. This eliminates breath contaminants.
2. Do not use a breath freshening agent as most of these agents contain a high level of alcohol.
3. Always take a DEEP BREATH immediately before taking a test.

1. Turn on the vehicle's ignition. The unit activates and the LCD displays **WAIT ####**. The device is preparing for a test. ***Take this time to drink WATER to eliminate breath contaminants.***
2. Once the unit has initialized, the LCD displays the word **BLOW**.
3. You can only take a test when the LCD displays the word **BLOW**.
4. **Blow/Hum Technique:** Blow steadily into the mouthpiece of the unit for approximately 4 seconds and then transition to a hum by *Humming* the word **"WHO."** Keep blowing steadily during the transition.

During the test the LCD displays the word **TEST**.

5. Keep blowing into the mouthpiece while humming **"WHO"** until the unit clicks and the sound of the beep changes to a higher tone to let you know when to stop (approximately 7 seconds).
6. **Straight Blow Technique:** Blow steadily into the mouthpiece of the unit for approximately 4-6 seconds until the unit clicks and the sound of the beep changes to a higher tone to let you know when to stop.
7. **Straight Hum Technique:** Hum steadily into the mouthpiece of the unit for approximately 4-6

seconds until the unit clicks and the sound of the beep changes to a higher tone to let you know when to stop.

8. Providing an incorrect breath sample will result in an aborted test. A message on the LCD will be displayed explaining the reason (described in the following section, *Post-Test Results*).
9. After successful completion of the test, the LCD displays the word **ANALYZING**.
10. The unit then analyzes the breath sample and displays **PASS**, **WARN**, **FAIL**, or **VIOL**.
11. During normal operation of the unit, the LCD displays an asterisk (\*), indicating that the engine is running.

## Post-Test Results

After you provide a breath test, one of five things will happen:

1. The LCD displays the word **PASS** and you may now start your vehicle.
2. The LCD displays the word **WARN** and you may now start your vehicle.
3. The LCD displays the word **FAIL** and you **will not** be able to start your vehicle.
4. The LCD displays the word **VIOL**(ation) and you **will not** be able to start your vehicle.
5. The LCD displays the word **ABORT** and you **will not** be able to start your vehicle.

## Post-Test Actions

When you blow an **ABORT** or a **FAIL**, you must take and pass another breath test before your vehicle will start. After blowing a **FAIL**, the LCD displays **FAIL**, cycles back to **WAIT ##**, and then **BLOW**.

Reasons for an **ABORT** are as follows:

- **Hum Stronger** = Unit is unable to detect a hum tone
  - Tester is not humming loud enough or too late

- **Blow Softer** = Unit is detecting too much air pressure  
- Tester is blowing too hard and should reduce air pressure used
- **Blow Harder** = Unit is not detecting enough air pressure - Tester will need to increase air flow, and try to make test longer
- **Don't Inhale** = Unit is detecting air flow going the opposite way in the unit, normally appears when a tester blows right before the unit actually displays "blow" or if the tester is inhaling too close to the mouthpiece
- **Please Retry** = Unit has excess moisture built up inside due to constant blowing or testing, can also appear if vent located behind the Co-Pilot Head Unit is obstructed - Tester will need to allow time for the unit to remove excess moisture and/or remove what is covering the vent

An aborted test is *not* a violation and will simply require you to retake the test.

## LCD Display Codes

**Table 1**      *LCD Display Codes*

| LCD Displays                 | Description  |
|------------------------------|--|
| <b>WAIT ##</b>               | The unit is preparing for a breath test.   |
| <b>BLOW</b>                  | The unit is ready to accept a breath test.   |
| <b>TEST</b>                  | The unit is accepting the test.  |
| <b>SRVC / L ###</b>          | A reminder of the number of hours remaining before the unit goes into lockout due to missing your monthly service appointment. |
| <b>BLOW / VLOCK @ # D ##</b> | A reminder of the days remaining before lockout due to violations.   |

|                                  |   |
|----------------------------------|---|
| <b>LOCKOUT VIOL</b>              | The device is in lockout due to violations. You must call to get an Unlock Code that is only valid for 6 hours.   |
| <b>APPT ##### / MM/DD/YY</b>     | <i>A reminder, your appointment date is approaching. Starts flashing 5 days before your appointment date.</i>   |
| <b>VIOL REMAIN #####</b>         | The number of violations remaining before the unit goes into the lockout grace period. Press the pound sign (#) and the number three (3) on the keypad to see this display. |
| <b>BLOW HARDER</b>               | The sample provided requires more pressure  |
| <b>HUM STRONGER</b>              | The sample provided requires more of a hum tone   |
| <b>BLOW SOFTER</b>               | The sample provided had too much pressure   |
| <b>DON'T INHALE</b>              | The sample provided contained negative pressure.  |
| <b>PLEASE RETRY</b>              | The sample provided was rejected  |
| <b>BAC PRESENT<br/>TEMP LOCK</b> | The device is in a temporary lockout because consistent alcohol readings have been detected   |
| <b>CELL CALL-IN</b>              | The device is connecting remotely   |

## Re-Tests

Before taking a test:

1. You must drink WATER prior to each and every breath test. This eliminates breath contaminants.
2. Do not use a breath freshening agent as most of these agents contain a high level of alcohol.
3. Always take a DEEP BREATH immediately before taking a test.

Once your vehicle is started, the device will ask for a random re-test by beeping and indicating **BLOW** along with a countdown timer reading. The re-test time limit is set by the state regulations and normally requires a test between 5 and 8 minutes. See state specific information regarding the exact retest time period allowed in your state. The retest time period allows enough time to safely pull over and take the test if you are not comfortable testing while driving. If you fail to take the re-test, the unit will indicate **MISSED TEST**.

***Failure to take the re-test is a violation and will be recorded by the device.***

When using the device, always practice safe driving habits and keep your eyes on the road. You should find a safe place to park before taking a re-test.

Once the device begins asking for a re-test, be sure to take the test **before** turning off your ignition or you will accrue a violation.

Place the device where you can see the LCD display. If a re-test is requested and you are driving with the radio playing loud or a window down, you may not hear the alert notifications that the unit will make. An optional LED light is available for clients who are hearing impaired.

## Lockouts

Per state requirements the device can trigger a lockout for several reasons. The grace period leading up to the permanent lockout will differ from state to state. The different type of lockouts is listed below.

1. **Temporary Lockout** - Indicated by an LCD display of ***"BAC Present xx:xx"*** This happens when a pre-set number of failed tests are registered by the device. This can happen before you start your vehicle OR after you start the vehicle. During the temporary lockout, the device will not allow you to re-test. Use this time to drink water, take some deep breaths. Test again when the device resets. During the temporary lockout, the handset should not be disconnected. Every state has different regulations surrounding temporary lockouts and time of the temporary lockout. See state specific information regarding how temporary lockouts work in your state. Some states require a **RE-TEST** be provided within a specific amount of time after a temporary lockout has ended.

**Note:** If this happens while you are driving, the device will not reset until you turn off your vehicle for 15 minutes. A 15-minute lockout may require you to return for service.

2. **Restricted Drive-Time Lockout** - Indicated by an LCD display of **RESTRICTED DRIVE TIME**. This only occurs if the unit is programmed with restricted driving times as ordered by the Monitoring Authority. During the restricted lockout time, the device will not allow you to take a test or start your vehicle.
3. **Service Lockout** - Indicated by an LCD display of **SRVC / L ###**. This is the number of hours remaining before the device shuts down due to missing your service date. Once the device displays **LOCKOUT SRVC**, you will no longer be allowed to take a test. You may call your service provider to see if you are eligible for an Unlock Code. Some

states prohibit the use of an Unlock code. There may be a charge for this code.

***Do not ignore the service warning grace period!***

4. **Violation Lockout** - Indicated by an LCD display of **LOCKOUT VIOL**. The state requires that every user return to their provider in the event a defined number of violations are logged by the device. In the event a user reaches the limit of allowable violations the LCD will display, “LOCKOUT VIOL” with a grace period. A violation can be caused by any of the following:
- A high-level breath failure
  - Missing a re-test
  - Starting the vehicle without passing a test
  - Disconnecting the head while the device is turned on

The number of accrued violations is reset at every service. When a user meets the defined number of allowable violations the device will display, “**ViolLck xxhr**”. The “XX” represents the number of hours before permanent lockout. Once the device displays **LOCKOUT VIOL**, you will no longer be allowed to take a test. You may call your service provider to see if you are eligible for an unlock code. Some states prohibit the use of an unlock code

The LCD displays the number of violations left when you press #3.

***Do not ignore the lockout warning grace period!***



If your unit locks out or is not operating properly, we may ask you to tow your vehicle to the nearest LCI Interlock location. If the problem is found to be with the device, we will credit your account for the amount of the tow bill. You are responsible for the tow bill if the problem is not unit related. Please contact your local service center for a phone number to a preferred towing company in your area. Towing which may exceed \$100 MUST be arranged through the LCI service center manager.

## Unlock Codes

Smart Start is the only interlock provider that offers **Remote Unlocking**. This service is available if you go into lockout and cannot get to a service center. You will be given a code from our corporate office. The code can be entered into the device using the keypad. This code will extend your lockout grace period for no more than six (6) hours. The code is only good *one time* and the device will operate normally. You are required to take and pass a test before starting the vehicle. The code does *not* bypass the device. Certain states do not allow the use of an unlock code in their interlock programs. See state specific information to see if your state allows the use of an unlock code.

## Service and Support

### Customer Service Contact Information

For customer service, contact LCI at 1-800-352-4872 and follow the instructions on the answering system.

If you leave a message, be sure to include your area code, phone number, and full name so that we can return your call.

### Co-Pilot™ Service

You will be instructed when to bring the device in for service. Be sure to make a note of your service appointment time.

If your vehicle needs service, have the service technician call Low Cost Interlock for instructions. Keep receipts from the shop indicating the date and time it was in for service as well as the date and time it was picked up.

If you need to replace your battery or starter, keep the receipt of purchase and keep the time between disconnecting the battery and reconnecting it as short as possible.

### After-Hours Service

If you need service after normal business hours, call us toll free at 1-800-352-4872. Our voice recording will direct you accordingly. Please follow the directions. If you leave a message, be sure to include your **area code, phone number, and full name** or we may not be able to return your call.

### Support Locations

Please visit [WWW.lowcostinterlock.com](http://WWW.lowcostinterlock.com)

## Specifications

**Table 2**      **Co-Pilot Model Specifications**

| Features                      | Specifications                             |
|-------------------------------|--|
| Accuracy                      | +/- 0.002                                  |
| Ambient Operating Temperature | -45°C to +85°C                             |
| Analysis Time                 | 3 to 7 seconds                             |
| Audio Prompts                 | Tones and/or voice prompts                 |
| Automatic Power Down          | Programmable                               |
| BAC readout Format            | Pass, Warn, Fail or 3 digit numeric value  |
| Breath Sample                 | Deep Lung, Adjustable                      |
| Calibration                   | Alcohol Reference solution                 |
| Mouthpiece                    | Oval                                       |
| Operating Voltage (system)    | 12 to 24 VDC                               |
| Primary Display               | Full color Graphic LCD                     |
| Range of Measurement          | 0 to 1.00mg/L                              |
| Recycle (recovery) Time       | 5 to 20 seconds                            |
| Secondary Display             | Bi-color LEDs to indicate pass, fail, warn |
| Sensor                        | Quarter-size Electrochemical Fuel Cell     |
| Dimensions                    | 4.75 x 2.5 x 1.75 in<br>12 x 6.5 x 4.5 mm  |
| Specificity                   | Alcohol Specific                           |
| Weight                        | 148 grams                                  |

## Ignition Interlock Client Checklist

**\*\*Please initial each space indicating your understanding of Low Cost Interlock's requirements.\*\***

- \_\_\_\_\_ I have watched the training video, if applicable.
- \_\_\_\_\_ I received a copy of my written user instructions and understand those instructions.
- \_\_\_\_\_ The lease agreement was explained to me and I understand it fully.
- \_\_\_\_\_ The warranty option was explained to me in detail.
- \_\_\_\_\_ I have read, understand, and accept the lease warranty information and instructions, removal information, and written instructions as explained by the technician and as stated in the lease agreement.
- \_\_\_\_\_ I have been instructed on the proper use of the device in my own vehicle.
- \_\_\_\_\_ I understand that I must rinse my mouth out with water prior to any test.
- \_\_\_\_\_ I understand that I must take a validating test after any failed test. A failed test is any reading other than PASS.
- \_\_\_\_\_ I understand that bypassing and/or tampering with the device will result in additional charges and notification to my monitoring authority.
- \_\_\_\_\_ I understand that anyone can drive my vehicle, but they must use the device, and I am responsible for all readings recorded by the device.
- \_\_\_\_\_ I understand that if I am the driver of the vehicle, letting someone else take a test for me is a program violation.
- \_\_\_\_\_ I understand that I must maintain a journal of events surrounding failed readings or problems with the device.
- \_\_\_\_\_ I understand that I must always practice safe driving when using the device. I also understand that I have six (6) minutes to complete the rolling re-test.

- \_\_\_\_\_ I understand that I must call LCI Interlock before having services performed on my vehicle so that we may educate the mechanic on how to work with the device.
- \_\_\_\_\_ I understand I will treat LCI Interlock employees and technicians respectfully.
- \_\_\_\_\_ I am comfortable with the preceding and know to call 1-800-352-4872 with any questions or concerns.

Signature of Client \_\_\_\_\_ Date \_\_\_\_\_

Printed Name of Client \_\_\_\_\_ D.O.B. \_\_\_\_\_

Signature of Tech \_\_\_\_\_ Date \_\_\_\_\_

Service Location \_\_\_\_\_

**Low Cost Interlock, LLC**  
**500 E Dallas Rd. Suite 100**  
**Grapevine, Tx**  
**1-800-352-4872 • [www.lowcostinterlock.com](http://www.lowcostinterlock.com)**

Low Cost Interlock, LLC does not discriminate any individual based on race, color, religion, sex, or national origin.

## Trabado Del Arranque Lista De Control Del Cliente

**\*\*Sírvasse poner su inicial en cada espacio, indicando que entiende los requisitos de Low Cost Interlock.\*\***

- \_\_\_\_\_ He mirado el video de entrenamiento, si corresponde.
- \_\_\_\_\_ Recibí una copia a de mis instrucciones escritas para el usuario y entiendo estas instrucciones.
- \_\_\_\_\_ Se me explicó el contrato de alquiler y lo entendí enteramente.
- \_\_\_\_\_ Se me explicó en detalle la opción de garantía.
- \_\_\_\_\_ He leído, entiendo y acepto la información e instrucciones sobre la garantía del alquiler, la información sobre la remoción, y las instrucciones escritas explicadas por el técnico y tal como se especifican en el acuerdo de alquiler.
- \_\_\_\_\_ Se me ha explicado el uso adecuado del dispositivo en mi propio vehículo.
- \_\_\_\_\_ Entiendo que deberé enjuagarme la boca con agua antes de cada prueba.
- \_\_\_\_\_ Entiendo que deberé tomar una prueba de validación después de cada prueba que falle. Una prueba fallada es cualquier prueba cuyo resultado no sea PASS.
- \_\_\_\_\_ Entiendo que sortear/o manipular indebidamente el dispositivo resultará en cargos adicionales y una notificación a las autoridades de monitoreo.
- \_\_\_\_\_ Entiendo que cualquier persona puede manejar mi vehículo, pero debe utilizar el dispositivo, y yo soy responsable por todas las lecturas registradas por el dispositivo.
- \_\_\_\_\_ Entiendo que si soy el conductor del vehículo, dejar que otra persona tome una prueba por mí es una violación del programa.

- \_\_\_\_\_ Entiendo que debo mantener un diario de los sucesos conectados con las lecturas falladas o los problemas con el dispositivo.
- \_\_\_\_\_ Entiendo que deberé practicar siempre un manejo cuidadoso cuando utilizo el dispositivo. Entiendo también que tengo seis (6) minutos para completar la prueba repetida de rodaje.
- \_\_\_\_\_ Entiendo que deberé llamar a LCI Interlock antes de que se efectúen servicios en mi vehículo de modo que podamos instruir al mecánico en cómo trabajar con el dispositivo.
- \_\_\_\_\_ Entiendo que deberé tratar a los empleados y técnicos de LCI Interlock con respeto.
- \_\_\_\_\_ Estoy cómodo con lo que antecede y sé que puedo llamar al 1-800-352-4872 si tengo cualquier pregunta o duda.

Firma del cliente \_\_\_\_\_ Fecha \_\_\_\_\_

Nombre del cliente en letra de imprenta \_\_\_\_\_

Fecha de nacimiento \_\_\_\_\_

Firma del técnico \_\_\_\_\_ Fecha \_\_\_\_\_

Instalación de servicio \_\_\_\_\_

**Low Cost Interlock, LLC**  
**500 E Dallas Rd, Suite 100**  
**Grapevine, Tx**

**1-800-352-4872 • [www.lowcostinterlock.com](http://www.lowcostinterlock.com)**

Low Cost Interlock, LLC. no discrimina a base de raza, color, religión, orientación sexual o nacionalidad.

## Read and Understood

It is required by your Monitoring Authority that you sign and date the form below to indicate that you have read this document and understand it.

Your signature on the form below verifies that you have read this manual and understand its contents.

---

Monitoring Authority Signature

Date

---

User Signature

Date