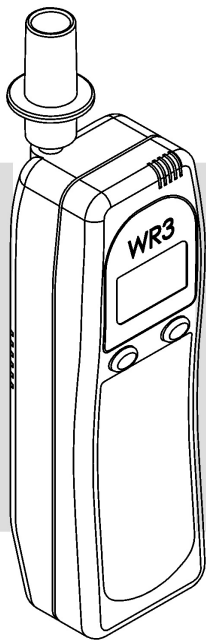




ALCOHOL COUNTERMEASURE SYSTEMS



# WR3

## Alcohol Interlock

USER GUIDE

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## Safety and Precautions

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WR3 has been designed for easy and safe operation. The alcohol interlock is to be used only for the purposes specified herein. To help ensure your safety, you must follow these precautions:

- In response to a retest request, carefully stop your vehicle at the side of the road. Complete a successful breath test before you resume driving.
- Do not open the handset case. Doing so will void the warranty and potentially damage the components within.
- Avoid exposing the handset to direct sunlight for extended periods of time.
- If liquid spills onto the handset, remove the excess with a cloth and allow the handset to dry thoroughly. If there is substantial moisture damage, do not turn the handset on. Contact your local service centre.
- Keep all radio frequency (RF) transmitting devices (such as cell phones) away from WR3 to minimize interference.
- Do not attempt to tamper with or circumvent WR3. This is considered a program violation.

## Maintenance

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During field use, WR3 is susceptible to dirt and debris. Clean the handset with a damp cloth and mild soap. Do not use abrasive cleaners or solvents.

Periodic service appointments are required. Consult your compliance guide for more information.

## Information and Support

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For information and support, please contact your local service centre.



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### What is an alcohol interlock?

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An alcohol interlock is an in-car breath alcohol screening instrument. It prevents a vehicle from starting if it detects that a driver's breath alcohol concentration (BrAC) is over a preset limit. It is designed to fit inside the vehicle, near the driver's seat, and connects directly to the vehicle's ignition system.

The interlock consists of a handset and relay module. The relay module enables or disables the ignition of the motor and stores the handset settings.

To help prevent other people from providing the required breath samples, the interlock requests additional breath samples at random intervals during the trip.

### How does it work?

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WR3 uses the same alcohol sensing technology used by police in roadside screening. A special alcohol-sensitive cell detects the amount of alcohol in the breath. Breath alcohol is directly proportional to the blood alcohol concentration (BAC).

## User Fees

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Drivers who are subject to an alcohol interlock program are responsible for all installation and maintenance costs. Refer to your compliance guide for a complete list of costs.

## Installation

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Installation centres are conveniently located, and the interlock is installed while you wait. You receive full training on site, and technicians help to ensure that everything operates properly.

The interlock is installed by a qualified installer in accordance with national regulations. An unqualified installation may invalidate the type approval of the vehicle.

## Maintenance

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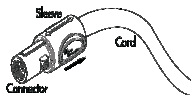
You must visit the installation centre a short time after installation. You must also visit at certain intervals for maintenance and data download. Maintenance appointments typically take less than 20 minutes.

Refer to your compliance guide for the interval dates.



The handset cable connects the handset to the interface module, which is connected to the vehicle's ignition. The handset should remain connected at all times, but for instances in which the handset needs to be removed, follow these steps:

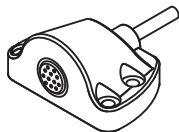
### To Disconnect



1. Make sure that the vehicle motor is **off**.  
The handset cable consists of a connector, a sleeve and a cord.
2. Release the connector from the interface module plug by **pulling back on the sleeve**. This disconnects the handset cable.

*Warning! Do not pull on the handset cord or turn the connector. This could damage the cable.*

### To Connect



Interface Module Plug

1. With the vehicle motor **off**, locate the **green arrows** on the handset cable connector and plug.

*Note! If the vehicle's motor is running, the interface module plug flashes green and beeps every 15 seconds.*

2. Line up the green arrows and **gently** push the connector into the interface module plug. A light click sounds when they properly connect.
3. A Wait message displays. WR3 may require another breath test. Observe the message on the display.

### Alcohol Influence on Testing

Drinking alcohol and eating foods containing alcohol will cause a failed alcohol test.

Some other factors that may affect a test (because they may contain or produce residual alcohol in the mouth) are medicines, drops, smoking, using mouthwash or mouth spray.

Rinsing the mouth with water after using mouthwash or mouth spray will remove the alcohol content in the mouth.

According to the previous information, **do not eat, smoke or drink for at least 10 minutes before taking a test.**

Additionally do not spray any air fresheners, disinfectants, cologne or perfume in the vehicle prior to a test, as these can also contain alcohol.

*Note! The above mentioned list of factors that may affect a test is not exhaustive. There are additional items that may affect the results of a breath test. Follow this guide carefully to avoid incorrect results.*

### Operating Temperature

The maximum ambient operational temperature is between  $-40^{\circ}\text{C}$  and  $+85^{\circ}\text{C}$ .

*Note! Depending on the ambient temperature, the handset takes a few seconds to warm up (approximately 15 seconds at  $20^{\circ}\text{C}$ , approximately 1 minute at  $0^{\circ}\text{C}$ ).*

### Battery Voltage

The voltage supplied to the relay module, which in turn powers the handset, is supplied by the vehicle battery.

For the 12V Interlock system, the vehicle battery voltage can range from 9V - 18V.

## Starting the motor



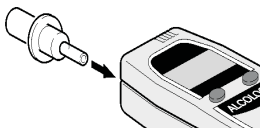
1. The interlock turns on automatically when you plug it in, and **Wait** displays as the unit warms up.

If the interlock is plugged in, but has gone into sleep mode, turn the power on again by pressing the right button. Alternatively, you can move the key between the On and Off positions.

*Note: The ignition must be OFF before you can continue.*

2. The handset displays **Ready for test** when it has finished warming up. The warm-up time is longer in cold temperatures.

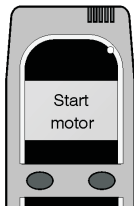
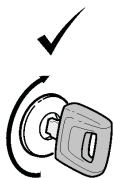
*Note: Do not store the mouthpiece to be used in a cold area. This causes condensation in the mouthpiece and increases the opportunity for water to enter the handset.*



3. Insert a clean mouthpiece. Using a clean mouthpiece is good hygiene, and it helps to ensure a usable breath sample.

*Note: Do not eat, drink or smoke for at least 15 minutes before the test. This could contaminate the breath sample.*

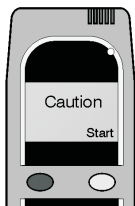
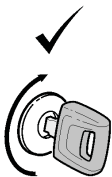
- Blow** moderately and continuously as you simultaneously **hum** into the mouthpiece. The handset makes a tone to indicate proper air-flow and hum. If you are not blowing correctly, a message displays to give you instructions for correcting it.
- Stop blowing when the handset clicks and stops the tone. **Wait** displays as the breath sample is analyzed.
- The handset beeps and displays the result:



#### **Start Motor**

You have passed the breath test, and no alcohol has been detected. You can start the motor.

*Note! You must start the motor within **five** minutes.*

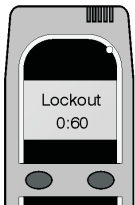


#### **Caution** (i.e., BAC limit warning)

You have passed the breath test, but alcohol below the allowable limit has been detected. You have two options:

- **Wait** five minutes and try the test again if you are certain there is no alcohol in your system.
- Press the **Start** button to acknowledge that you intend to drive with alcohol in your system. The motor must be started within **five** minutes.

*Note! You can continue driving, but WR3 will have warned you about the alcohol detected.*



## Lockout

You have failed the breath test. The alcohol level detected is over the preset limit. You may NOT start the motor.

**Lockout** and a countdown timer display. Wait for the countdown to finish before attempting another breath test.

*WARNING! Do not attempt another breath test until you are sure that your alcohol level is under the limit. A second failed test may result in a longer lockout time. Please refer to your compliance guide for actual program requirements and details specifying program violations.*

All breath tests are logged by WR3 and downloaded during routine service appointments. Any instance of alcohol detected in the breath samples may be considered as a program violation. Refer to your compliance guide for specific limit amounts.

## Warm-up and Standby (where applicable)

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Once you have started your vehicle, **Drive Safely** displays.

You can place WR3 in Warm-up mode by holding the left button.

**Warm-up** displays, and your vehicle can remain idle without requiring another breath test for up to 30 minutes.

To exit this mode, hold the right button. This mode also terminates if the RPMs of your engine increase.

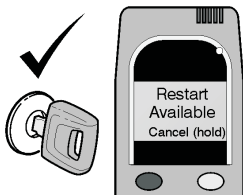
*Note! For commercial vehicles, the corresponding mode is Standby. **Standby** displays, but the idle time is not limited to 30 minutes. The idle time for Standby mode is unlimited.*

## Restarting the motor

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If the motor is turned off for a short period of time, you can restart it without another breath test. This safety feature is helpful if the motor stalls, or if you need to make frequent, short stops. Refer to your compliance guide for the restarting time limit.

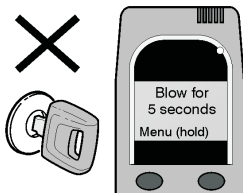
Observe the message on the handset:



### Restart Available

You can restart the motor without providing another breath test.

*To cancel the restart, press and hold the right button.*



### Blow for 5 seconds

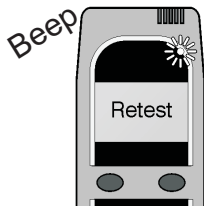
The restart period has expired. You need to pass a breath test to start the motor.

*Refer to the section about starting the motor.*

## Running retests

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Additional breath tests are required at random times to ensure that the driver has not consumed alcohol since the motor has been started. This occurs at random intervals during the trip. Refer to your compliance guide for more information.



1. The handset beeps and displays **Retest**.
2. Do not provide a breath test while the vehicle is in motion. The interlock provides sufficient time for you to stop in a safe location.
3. Provide a breath sample and observe the display messages as they apply:



### **Drive safely**

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



## **Pull over, Turn off Motor**

The alcohol level is over the preset limit. **Lockout** and a countdown timer display until you attempt another breath test. You cannot start the motor until a passed breath test is provided.

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

**In response to a retest request, carefully stop your vehicle at the side of the road. Complete a successful breath test before you resume driving.**



## MENU OPTIONS

WR3 has a number of customizable options, such as volume control, language selection, and wake-up/sleep times. These options are found in the main menu, which can be accessed by pressing and holding the left button.

### Wake-Up Mode

---

The handset can “wake up” up to three times per day. This helps to ensure that the handset is warmed up and ready before you enter the vehicle.

*Note! Before using this option, make sure that the vehicle battery has sufficient charge. The Wake-Up option is automatically disabled if the handset has not been used for three consecutive days.*



1. Press and hold the left button to access the main menu. Press the left button to scroll to **Wake-Up**. Select with the right button.
2. Select a time slot by placing the cursor underneath an on/off entry. Set the wake-up time for that slot. The left button moves the cursor, and the right button changes the value.
3. Press and hold the right button to save your selection and exit this mode.

## Sleep Mode

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The handset can be put into sleep mode manually or automatically when the ignition is off. This conserves the battery.

To put the handset into sleep mode manually, **press and hold both buttons**.



1. Press and hold the left button to access the main menu. Press the left button to scroll to **Sleep**. Select with the right button.
2. The Sleep menu offers four pre-programmed times: **5, 30, 60** and **90** minutes. Press the left button to scroll through the times, and press the right button to make your selection.
3. Press and hold the right button to save your time selection and exit this mode.

## Time Mode

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You can adjust the handset time for different time zones, daylight savings, etc.

This adjustment is primarily for the Wake-Up feature. It does not change the times in the Service Date list.

1. Press and hold the left button to access the main menu. Press the left button to scroll to **Time**. Select with the right button.
2. The current time displays with the option to increment the time up or down by 0.5 to 3.0 hours. Press the right button to increase the time [**+**] and the left button to decrease it [**-**].
3. Press and hold the right button to save your time setting and exit this mode.

## Date Mode

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To view service dates and other important dates and times, press and hold the left button to access the main menu. Select the first item, **Service Date**, with the right button. The current date and time display.

You can press the left button to scroll through all of the dates in the list:

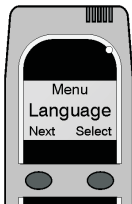
- Current Date
- Service Date
- Lockout Date
- Calibration Date
- Calibration Expiry Date

To exit at any time, press and hold the right button.

## Language Mode

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WR3 is available in multiple languages. The selections are programmed at the factory.



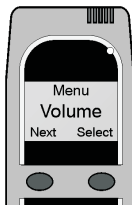
1. Press and hold the left button to access the main menu. Press the left button to scroll to **Language**. Select with the right button.
2. Use the left button to scroll through the languages. Stop at your selection.
3. Press and hold the right button to save your selection and exit this mode.

## Volume Mode

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The handset produces audio tones. You can set their volume from the main menu.

Note! This applies to the handset only. The volume of the Relay Module cannot be set.



1. Press and hold the left button to access the main menu. Press the left button to scroll to **Volume**. Select with the right button.
2. Use the left and right buttons to adjust the volume up and down.
3. Press and hold the right button to save the setting and exit the menu.

## Troubleshooting Table

The following table lists basic problems that can occur, along with their solutions. For other problems, contact your service provider.

If WR3...	You should...
Will not turn on	Check the vehicle battery
Displays an error code	Refer to the table of errors
Displays an early or immediate recall	Contact your service provider
Aborts a breath test	Retry the test, or investigate the Abort code
Is in permanent lockout	Contact your service provider
Requires service	Contact your service provider

## Service Dates

After WR3 installation, you need to return for a follow-up appointment. Service appointments are then scheduled at regular intervals. See your compliance guide for the interval dates.

The service appointments are for verifying interlock accuracy and downloading the log of breath tests.

## Error Messages

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WR3 may not accept a breath test (and may display error messages instead). To minimize errors, make sure that the handset is connected properly, the motor's battery is in good condition, and that mobile phones are not in use during breath tests.

<b>Messages</b>	<b>Description</b>	<b>What to do</b>
<b>ABORT 10, 30, 40, 45, 50</b>	There is a problem with the handset.	Try the test again. If the message persists, contact your service provider.
<b>Early Recall</b>		A service reminder displays for 12 days, followed by a permanent lockout.
<b>Immediate Recall 1, 4, 5, 6, 7, 11</b>	Immediate recalls result from failed tests, missed retests, failure to pull over on a failed retest, a start violation, and/or the use of emergency override (where applicable).	A service reminder displays for five days, followed by a permanent lockout.
<b>Missed Retest</b>	Occurs when a retest is not done within the 3-minute time frame. The horn sounds for 3 minutes, and an Early Recall follows.	Complete the test as required.
<b>Missed Service</b>	If a service request is ignored, there is a 5-day grace period.	Call your service provider to schedule an appointment.

<b>Messages</b>	<b>Description</b>	<b>What to do</b>
<b>Permanent Lockout</b>	The service request and grace period have been ignored. The vehicle cannot be started until the interlock is reset by the service provider.	Contact your service provider immediately to schedule an appointment. The motor cannot be started, so towing may be required.
<b>Pull Over, Turn off Motor</b>	Occurs in response to a failed retest.	The driver has 3 minutes to safely stop and shut off the motor.
<b>Service Due</b>	Reminder that a service appointment is coming up.	Arrive at the scheduled time to avoid any program violations.
<b>Start Violation</b>	If you start the vehicle without passing a breath test, a violation results. WR3 requests a retest, and the Start Violation message displays.	Take the breath test and contact your service provider.
<b>Try again</b>	There is a problem with the test.	Try the test again. Call your service provider if the problem persists.
<b>Turn key off</b>	The ignition key is in the On position.	Turn the key to the Off position and wait for the Start Motor message to display.

## Reset Codes

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Reset codes are used by service personnel to change the service dates, early recall dates, lockout dates, and in emergency situations, override the interlock. These codes are randomly generated and change daily. Attempting to circumvent these codes results in a program violation.

### **Emergency Override (where applicable)**

The Emergency Override code is available for true emergency situations. Using this code for any other reason results in a Program Violation.

### **Third-Party Maintenance (TPM)**

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

### **Other**

Reset codes can apply in other instances, too. For example, an early recall might occur by mistake, or a client might not be able to attend a service appointment for valid reasons.

## Disposal of Unit at End of Service Life

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Return to your dealer for removal of the interlock from your vehicle. Following the removal, proper disposal of the alcohol interlock (relay module, handset, or both) at the end of its service life will be done by the manufacturer.



## Replacement Parts

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Contact your service centre for the following parts:

- Mouthpieces (Bag of 25), ACS Part Number: 95-000140



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