

# DRAEGER INTERLOCK® XT



## IGNITION INTERLOCK SYSTEM

### User Manual

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**Safety**

For correct and effective use of the described instrument, it is essential to read and strictly follow the instructions contained in this document. The described instrument is to be used only for the purposes specified herein.

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**Maintenance**

Repairs of the described instrument may only be performed by Draeger Safety, Inc., Breathalyzer Division, or an authorized service technician. Only original Draeger spare parts or Draeger-provided replacement accessories may be used.

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## OVERVIEW

**NOTE:**  
BAC = Breath Alcohol Concentration

### What does the Draeger Interlock do?

- It allows you to start your vehicle when you blow a breath sample without alcohol.
- Use it correctly and you can continue to drive your vehicle.

### How does it work?

- The system measures and records your BAC level before you start your vehicle. When your BAC level is below the set limit, your vehicle will start. If your BAC level is too high, your vehicle will not start.
- The system will also require you to submit additional breath tests while you drive.
- The Interlock records all BAC readings, vehicle starts, engine shut-offs, violations, etc., as well as the date and time of each event. A computer records these events each time you go to the service center for a service check.

### Does the device have to be serviced after installation?

- Yes! The Interlock will indicate when service is due. You will not be able to start your vehicle if you do not have the device serviced as required.
- Make sure you get the device serviced as required. See back inside cover for your service requirements.

## IMPORTANT DO'S AND DONT'S

**WARNING**  
Leave the tamper-evident label in place.  
Any attempt to remove the label is a violation!

### For correct operation of the Interlock:

- **DO** keep the unit clean and dry at all times.
- **DO** use a clean, dry mouthpiece when providing breath tests.
- **DO** contact your Service Technician with any questions or concerns.
- **DO NOT** consume alcohol, use alcohol-based products (such as mouthwash), or smoke for 15 minutes before using the Interlock. Alcohol remaining in the mouth shortly after drinking can produce high readings.
- **DO NOT** place the Interlock unit on the vehicle floor. If the device is not secured, it may interfere with the pedals and the safe operation of the vehicle.
- **DO NOT** use the Interlock while driving if you are at all unsure about your safety. If you are asked for a breath test while driving, you will have enough time to pull over, stop the vehicle and present the breath test.
- **DO NOT** attempt to disable the Interlock, or fail to undergo a proper Retest. This will shorten the service interval and these actions are recorded in memory.
- **DO NOT** tamper with, abuse, misuse and/or neglect the Interlock device.

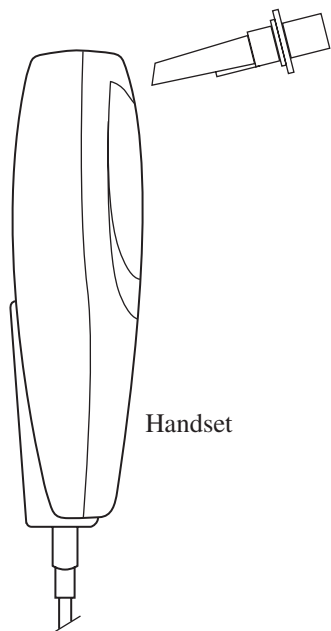
## USING THE INTERLOCK

### Turning on the System:

- Put out your cigarette (if applicable) and remove chewing tobacco, candy, gum, or any other food product from your mouth.
- Always use a clean, dry mouthpiece.
- Make sure the mouthpiece is inserted properly as shown in Figure 1.
- Insert key into the ignition switch.
- Turn key to the "ON" position (usually two clicks).
- Turn key back to the "OFF" position.  
The Interlock will display **"Warming Up - PLEASE WAIT"** on the screen as shown in Figure 2.
- When the Interlock is ready for the BAC test, it will display **"Ready for Test - PLEASE BLOW"** on the screen as also shown in Figure 2 and the yellow light will flash.

## TURNING ON THE SYSTEM

Insert mouthpiece  
into opening  
(Notice groove)



Mouthpiece  
inserted  
(Notice groove)

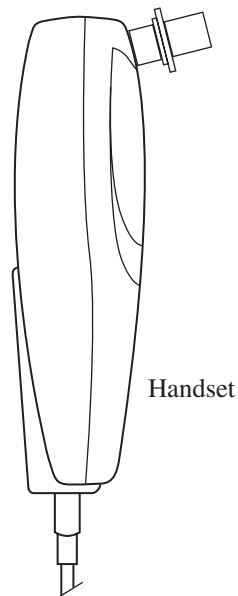


Figure 1  
How to Insert Mouthpiece

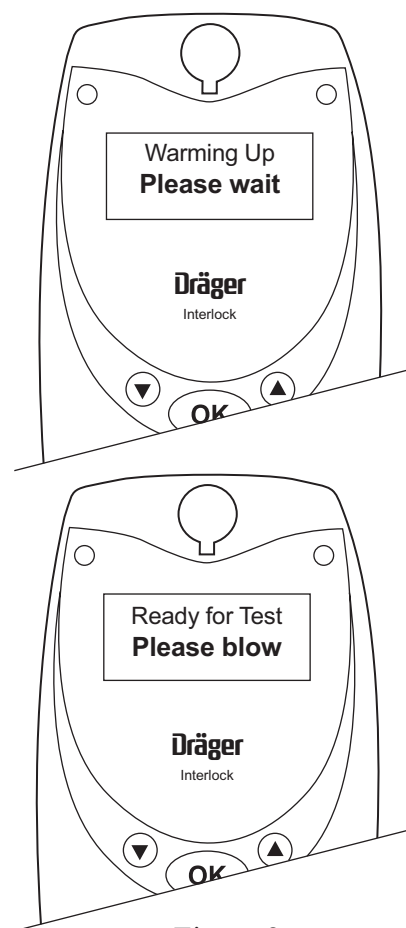


Figure 2  
Wait / Please Blow

## TAKING A BREATH TEST

At the "Ready for Test - PLEASE BLOW" prompt, take a few normal, even breaths, then....

- Take a deep breath and put your lips around the mouthpiece.
- Provide a steady blow into the mouthpiece (exhaling normally).
- As you blow into the Interlock, the buzzer will sound.  
This means you are blowing correctly, so DON'T STOP.
- When the buzzer sound stops (you may hear a "click") , give an immediate short, sharp suck back.
- Do not pause between the blow and the suck back.

DO NOT smoke during a breath test.

### NOTE:

If you turn the vehicle's key to the "ON" position just to get enough power to roll up your window (with no plan to drive) and you see "PLEASE BLOW", you do not need to take the test. Simply turn key to the "OFF" position. The initial test will be aborted.

Keep the handset at least 12" from radio, cell phone or pager.

The Interlock will display "Test Passed" or "TEST FAILED" if the blow pattern was correct.

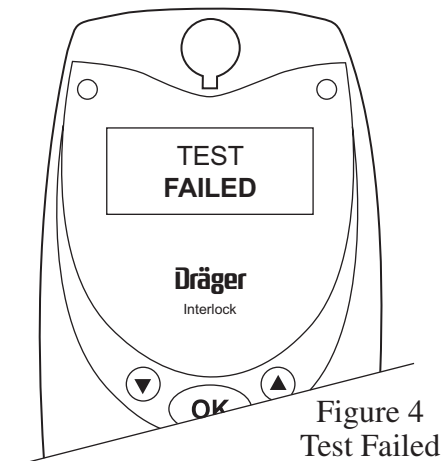
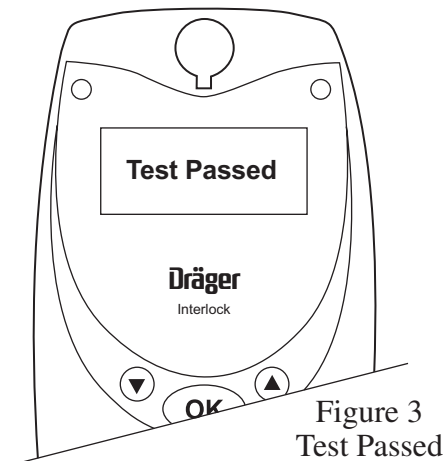
**TEST PASSED:** If little or no alcohol is detected in the breath test, the message "Test Passed" will appear (Figure 3). The vehicle will now start.

**TEST FAILED:** If alcohol is detected in the breath sample, the message "TEST FAILED" will appear (Figure 4). The vehicle will not start.

### NOTE:

You have at least a minute to start the vehicle after passing a breath test. If you do not start the vehicle within this free start time, you must pass another test. The free start time remaining to start the vehicle is displayed on the handset.

Do not disconnect the handset while you are driving the vehicle or while the engine is on; this action is a violation!



## WHAT HAPPENS IF I FAIL THE BREATH TEST?

- If the screen shows "**TEST FAILED**" after the breath test, the vehicle will not start. The screen will then display a countdown of the time before another breath test can be taken.
- If the alcohol content of your breath was very high, the device may be disabled (temporary lockout) longer.
- Once the temporary lockout has been completed, return the ignition key to the "**ON**" position. The device will prepare for another test.
- When the yellow light starts flashing and the display shows "**Ready for Test - PLEASE BLOW**", try the test again.

### NOTE:

Do not use mouthwash or any product containing alcohol for 15 minutes before testing. Repeated failed tests may also result in the device going into "**Temporary Lockout**".

## TEMPORARY LOCKOUT

### What happens if the device goes into the "Temporary Lockout" mode before I start my vehicle?

- If you failed your breath test, the Interlock may enter the "**Temporary Lockout**" mode.
- The display will show you how much time (hours, minutes and seconds) remain in the "**Temporary Lockout**" period as shown in Figure 5. The red LED light will also be on.
- After the "**Temporary Lockout**" is over, the device will turn itself off. If you want to try another breath test, turn the ignition key to the "**ON**" position.

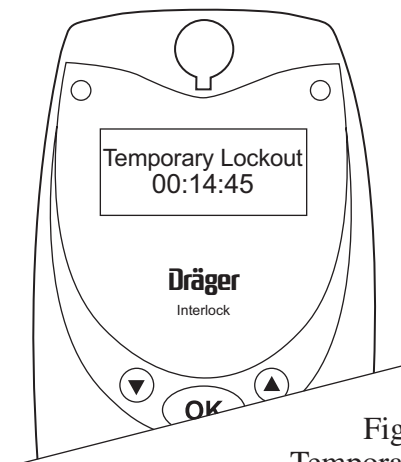


Figure 5  
Temporary Lockout

## PROBLEMS WITH THE BREATH TEST (Figure 6)

### Blow Longer

- If you hear beeping during a test, stop and look at the display.
- "**Blow longer!**" means that you did not blow long enough.
- The red light will flash.
- Press the **OK** button and the Interlock will prepare to test again.
- Take the test again and blow until the buzzer stops sounding.

### Blow Stronger

- If you hear beeping during a test, stop and look at the display.
- "**Blow stronger!**" means that you need to blow harder.
- The red light will flash.
- Press the **OK** button and the Interlock will prepare to test again.
- Take the test again and blow a little harder.

### Suck after Blow

- If you hear beeping during a test, stop and look at the display.
- "**Suck after Blow!**" means that you did not do the suck back correctly.
- The red light will flash.
- Press the **OK** button and the Interlock will prepare to test again.
- Take the test again.

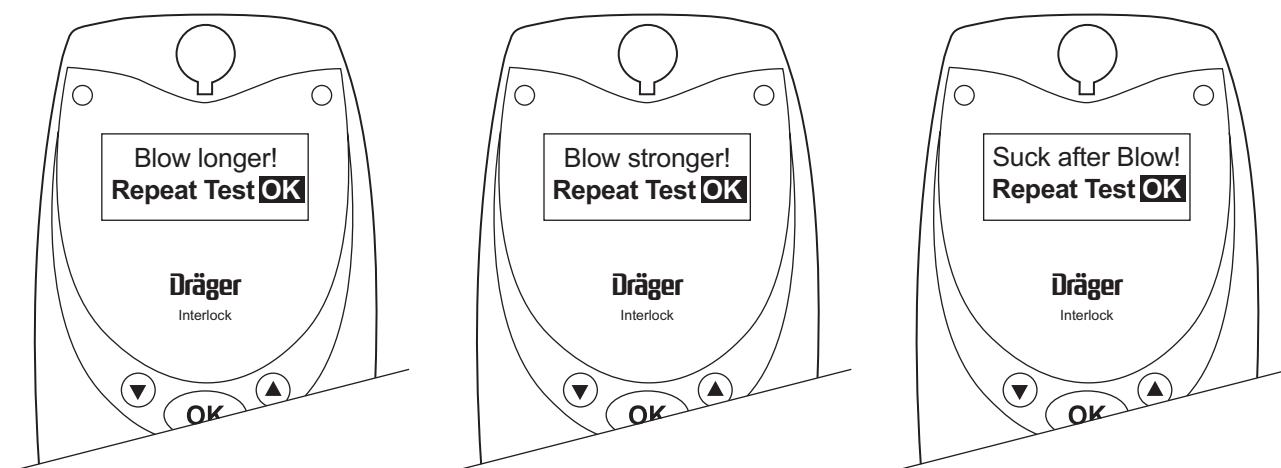


Figure 6

## ROLLING RETEST

### What is a Rolling Retest?

To make sure you stay sober while driving, the Interlock requires you to take additional tests while you drive. You must give additional breath tests at random intervals – perhaps several times before you turn off your vehicle. (See back cover for how often you will take the Retest.)

- When the Interlock prompts for a Retest, you will hear a beep and the yellow light will flash.
- The Interlock will display "**Retest required - PLEASE BLOW**".
- Take the breath test exactly as you do when you start your vehicle.
- Give the Retest within the specified time.
- When you see "**TEST PASSED**", put the device back on the Hook and Loop Tape and continue your trip.
- The "**Drive Safely!**" message will return to the display and remain on the display for the duration of the trip or until the next random Rolling Retest.

### What happens if I just turn my vehicle off during the Retest?

- Once the device asks for a Retest, you must take the Retest.
- A violation will be recorded if you don't take the Retest in the time allowed.

### What happens if I don't hear the Retest prompt?

- At certain times, the Interlock's buzzers will start beeping continuously to alert you.
- To stop the buzzers, press the **OK** button and take the Retest.

### What happens if I don't take the Retest in time?

- The message "**Retest VIOLATION**" will be displayed.
- The Interlock's buzzers will beep continuously.
- The vehicle's horn may repeatedly honk and/or the headlights may continuously flash.
- You **must** pass the Retest or turn off the vehicle in order to deactivate the horn and/or lights.

#### **REMEMBER**

You have several minutes to take the Retest. If you are in heavy traffic or on a dangerous section of road, wait to take the test until you can safely follow correct testing procedures. For safety reasons and certain road laws, you may choose to pull over at the Retest prompt, and park the vehicle off the road (away from traffic in a safe position).

Leave the motor running during the Retest.

### What happens if I fail the Retest?

- Don't panic! Make sure your mouth and vehicle are free of alcohol vapors and smoke.
- If the alcohol level was low, the device will automatically start another Retest. When you see "**Retest Required - PLEASE BLOW**" and the yellow light is flashing, take the breath test as before.
- If the alcohol level was high, the device may go into the "**TEMPORARY LOCKOUT**" mode. If you see "**TEMPORARY LOCKOUT**", you **must pull over and turn the engine off**. Wait for the "**TEMPORARY LOCKOUT**" timer to count down, then take the breath test again.

## SERVICE REQUIRED

### The Interlock:

- Must be serviced periodically. (See inside back cover to see how often you need to bring the vehicle back to the service location so that the Interlock can be serviced).
- Will remind you of an upcoming service appointment after you switch the ignition key to the "**ON**" position.
- Will display "**Service Required in XX day(s)**" a few days before your next appointment. You will see it each time you switch the ignition key to the "**ON**" position to begin an initial test. If you see this message and you have not made an appointment for service, call your technician to make your appointment.
- Will remind you before it locks out permanently.
- Will display "**Service Lockout in 1 day**" on the last day before it disables the vehicle for lack of service.

#### NOTE:

The message "**Service Lockout in 1 day**" means that the device will lock out at 12:00 AM (midnight). You **MUST** have the device serviced that day or else you will be required to have your vehicle towed to the service center **at your expense**.

## SERVICE REQUIRED

### You must take your car to the Service location:

- When Service is required.
- When the device displays "**Service Lockout**".

### The Service Provider will collect the stored information and:

- Log the odometer reading.
- Inspect the Interlock for evidence of tampering.
- Check the wiring and connections.
- Calibrate the Interlock at the State- or Manufacturer-specified interval.
- Schedule your next appointment.

## VIOLATION RESET

**The Interlock is programmed to require servicing earlier than usual if it detects violations. "VIOLATION RESET" might be caused by:**

- A failed Breath Alcohol Test.
- A skipped Retest.
- A failed Retest.
- Tampering with the Interlock.
- Trying to circumvent the Interlock.

If you see "**Service Lockout in XX day(s)**", and you know that you are more than about a week from your next appointment, you should contact your Service Provider and make an appointment for service.

**IMPORTANT**

The device will lock out permanently if not serviced when required and you will not be able to start your vehicle.

## LOCKOUT RESULTING FROM MISSED SERVICE

### What happens if the Interlock locks out from lack of service?

- If you do not get the device serviced, it will go into permanent lockout. When you try to start your vehicle, you will see "Service Lockout" (Figure 7).

### If the device is in permanent lockout, you must:

- Tow the vehicle to the Draeger-authorized service location of your choice **at your expense**.

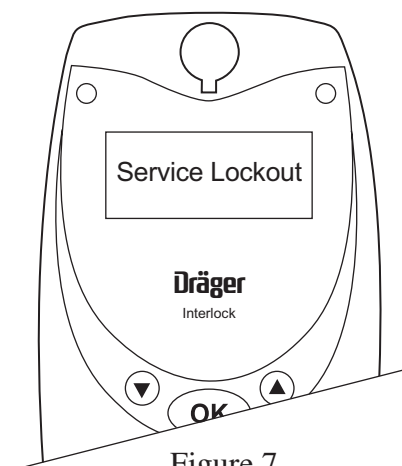


Figure 7  
Service Lockout

## PROPER INTERLOCK CARE

### Keep it dry

- Like a radio or cellular phone, the Interlock cannot work properly when it is wet.
- Keep the Interlock on the Hook and Loop Tape attached to your car interior console.
- Make sure your windows are always closed when you are away from your vehicle.
- **DO NOT** spill anything onto or into the Interlock.

If you spill something onto or into the Interlock, contact your service technician immediately. **DO NOT** turn the key to the "ON" position to start a breath test.

### NOTE:

You must pay the costs to replace or repair the Interlock if it gets wet.

## Exterior Care

- Use a lightly dampened cloth to wipe off dirt if the outside of the Handset becomes dirty.
- Never use a cleaner or soap on the Handset.
- For a very soiled or dirty Handset, request that the service technician clean it for you at your next Service appointment.

## Misuse, Abuse and/or Neglect

- Take care of the Interlock while it is in your possession.
- Treat the Interlock as you would a cellular phone or other portable electronic device.
- Always place the Handset on the Hook and Loop Tape when not in use.
- You will be held liable for damage for which the Service Provider, Service Technician or Manufacturer believes has been caused by misuse, abuse and/or neglect of the Interlock.

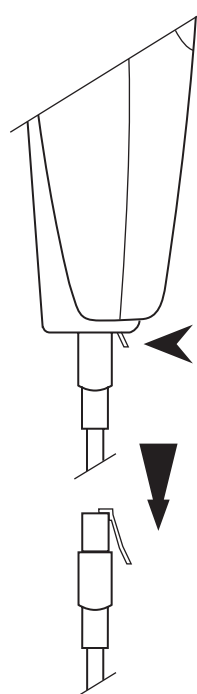
## DISCONNECTING THE HANDSET (Only if and when Pre-approved)

### IMPORTANT

With authorization only, you may be instructed to remove the handset only when temperatures are extreme. The handset must not be disconnected while driving, or while the interlock is requesting a retest. If the Handset is disconnected at these times, it will result in a Violation.

Extremely cold temperatures can increase the time for the Interlock device to allow a breath test. To lessen wait times in extremely cold temperatures, the handset should be disconnected and taken out of the car. The Interlock should be placed in a location where the temperature is roughly room temperature.

In extremely hot temperatures, the unit may not start until it is cooler. Therefore, if approved, you must temporarily remove the handset from the vehicle and place it in a location where the temperature is roughly room temperature.



To remove the Handset from the vehicle, unplug the modular plug cable that is located at the bottom of the handset by pressing down on the lever and gently pulling the cord out of the handset.

Figure 8  
Disconnecting the  
Handset

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## VEHICLE MALFUNCTIONS OR REPAIRS AND WHAT TO DO

### **Charging a dead (flat) or weak battery**

Your interlock will detect a loss of power. Document the date and time that the battery went flat. Give this information, in writing (on an 8 1/2 x 11" sheet of paper) to the technician. If the battery really should be replaced, purchase a new battery and replace it on the same day.

Remove both the positive and negative terminals from the battery. Consult a manual of the vehicle battery charger for the correct method of charging the battery.

### **Disconnecting Battery**

Your interlock will detect a loss of power. Document the time and date that you disconnected your battery and the reason. Give this information in writing (on an 8 1/2 x 11" sheet of paper) to the technician. Make copies of all receipts for parts purchased to make a repair or add a component to your vehicle. Give the copies to your interlock technician.

### **Replacing Battery**

Your interlock will detect the loss of power. Purchase a new battery and replace it on the same day. Give a copy of the receipt to the technician at your next appointment.

#### **NOTE:**

If you are replacing a battery yourself, bring a copy of the receipt for the purchase of the battery to your next monitoring appointment. Documentation is required. Do not move a battery from one vehicle to another. Give this information in writing (on an 8 1/2 x 11" sheet of paper) to the technician. If an automotive repair facility replaces the battery, bring a copy of the full receipt for the charges (parts and labor) to your next appointment.

### **Body Work**

It is your responsibility to keep the interlock clean. Cover the handset with a clean sock or towel while the vehicle is in the body shop. If your vehicle will be in the shop for an extended amount of time, you may be advised to seek authorization from your monitoring agent for a temporary disconnect of the interlock. Ask the body shop to contact the Draeger Interlock technician for instructions.

## VEHICLE MALFUNCTIONS OR REPAIRS AND WHAT TO DO

**REMINDER:**

Do not leave the key in the ON position for the initial test. Wait for "Free start time:" DO NOT start the car on "PASSED". If you start the car and the handset does not display "Drive Safely!", turn off the vehicle, count to five, and then start the engine again while revving the engine a little. Make sure "Drive Safely!" is going across the screen before driving off.

**Vehicle Service Maintenance (minor services, such as oil change)**

Please stay with the vehicle for this type of quick service. Ensure that alcohol-free solvents are used in your vehicle. If not, be sure the vehicle is aired-out before you take an initial test.

**Vehicle Service (major repairs, including replacing alternator, starter and starter relay)**

Ask the automotive technician to contact the Draeger Interlock technician for instructions. Ensure that alcohol-free solvents are used in your vehicle. If not, be sure the vehicle is aired-out for at least 15 minutes before you take an initial test.

**If your vehicle repairs take more than a few days, you may be required to make up time on your interlock program.**

## DISPLAYED MESSAGES

Ready for Test <b>Please blow</b>	Device is ready to accept a breath test. Blow into mouthpiece using correct breath pattern.
Retest required <b>Please blow</b>	Retest is required. Blow into mouthpiece using correct breath pattern.
<b>Test Passed</b>	Breath Test Passed. The vehicle can be started.
<b>Test Failed</b>	Device detected alcohol in the BAC sample. The vehicle will not start. Wait for Handset to prompt " <b>PLEASE BLOW</b> ", and then take the test again.
Free start time: xx:xx	The time remaining when the vehicle can be started without another breath test.
Drive Safely!	Vehicle has been started.
Warming Up <b>Please wait</b>	Device is preparing itself for the breath alcohol test. Wait for the Interlock to display " <b>PLEASE BLOW</b> ", and then take the test.
Blow longer! <b>Repeat Test</b> <b>OK</b>	The breath sample was too short. Try the breath test again, but blow a little longer.
Blow stronger! <b>Repeat Test</b> <b>OK</b>	The breath sample was too soft. Try the breath test again, but blow harder.
Suck after Blow! <b>Repeat Test</b> <b>OK</b>	The suck back was done incorrectly. Try the breath test again. Remember the suck back is short, sharp and directly after the blow.
Temporary Lockout xx:xx:xx	Device is temporarily locked out. Wait for the temporary lockout countdown timer to finish. Turn ignition key to " <b>ON</b> " and try test again.
Service Lockout in xx days	Device will " <b>Lockout in XX day(s)</b> ". This message means that you are past your original appointment date. Contact your service technician immediately to make a service appointment.
Service Lockout	Device has detected a need for a service. The vehicle cannot be started until the Interlock is serviced. Contact your service technician.
VIOLATION RESET	Violations have been detected. Contact you service technician immediately to make a service appointment.