

Alcohol Breath Tester Operational Manual

FC300 (AT576)



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Introduction

Intended Use

- The device is intended to measure alcohol in the human breath. Measurements obtained by this device are used in the diagnosis of alcohol intoxication.

Device Description

- This device uses a Fuel-Cell sensor to detect the alcohol level. The LCD displays the breath alcohol concentration.
- To operate the device by press front button switch for 2 seconds, the device will turn on and count down for warm-up. It will show “E-E-E” and for blowing mode, the user blowing at least 6 seconds to test. The display will show the test result and then power off automatically.
- The main product descriptions as below:
 - European Fuel-Cell sensor inside.
 - Smart microprocessor controlled.
 - Sound alarm if above set point.
 - Battery available for standard testing is 500 times.
 - Test counter for displaying the number of measurement.
 - Blowing pressure and interrupt detection.

Important Notes

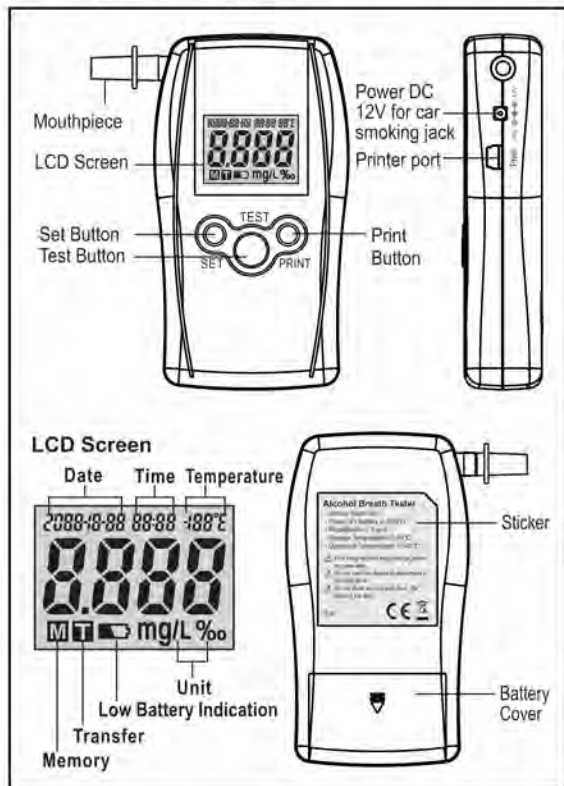
- Before testing, wait at least 15 minutes after your last drinking or eating.
- The blowing time should be 6 seconds at least, and blowing steadily.
- Only use the unit in a temperature 0 - 40°C or 32 - 105°F for correct measurement.
- Recalibration: each 12 months or 500 tested times
- Never store this unit in a corrosive gas room or sun exposure area.
- Avoid dropping or subjecting the unit to a strong shock.

Power Supply

- Slide back the battery cover on the back of the breathalyzer.
- Insert 1 piece 9V alkaline battery, making sure that the +/- symbols are correctly aligned.
- If the battery voltage is too low, the unit may display a battery symbol and the unit may not operate correctly.
- The breathalyzer can also be operated from DC jack, not for recharge.
- Replace battery within 20 seconds to save the last date/time.



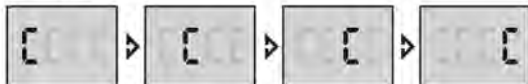
Description of parts



Operation

Breath Test

- Insert one of the mouthpieces into the 'blow in' hole.
- Press the **TEST** button 2 seconds and allow 15 seconds for the unit to warm up. To remind you to allow the unit to warm up, the countdown will appear on screen (15,14,13... to zero).
- After countdown, the unit beeps and the LCD displays "C-C-C-C", it is ready to test.



- Blow 6 seconds steadily and continually until audio sound stops.
- It may show error "ERR" if no blowing, interrupt or shorter blowing.
- Your test result will be displayed on the screen, and it will show "HI" if above display range.
- Wait 30 seconds for retest.





Setup Date/Time

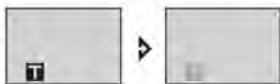
- Press Set button for 2 seconds, setup the flashing text for date or time position, and press “Print” button to increase the value of date or time.
- Press one more Set button to go to next mode.
- Auto return to normal mode if no any operation for 30 seconds.

Passive test

- Remove mouthpiece
- Shake the unit to clean the remained air in the blowing pipe
- Power on to start countdown
- Press and hold TEST button when showing C-C-C-C.

Download to computer


- Use the specific RS232 cable to connect the tester and the USB port of computer.
- Run the download software on the computer.
- Press Set button to select “”, and then press Print button to download.
- The “” indication on the LCD will flash during transfer mode.



Print the test result

- Connect the specific printer to the tester, and turn on the printer.
- Press Print button for 1 second to print out and display the last tested result.

Error Message

Error message	Description	Remarks
Hi	The blood alcohol content is above the display range of unit.	Refer to the following attached figure ①
Err	Error message: <ul style="list-style-type: none">• The breath is not steadily.• The breath is interrupt.• The breath is less 6 seconds.• No blow during ready mode	Refer to the following attached figure ②
	- Low battery indication - Need to change new battery - Use alkaline battery	Refer to the following attached figure ③
Alarm sound	- Error message - Above alcohol set point - Set point: 0.05%BAC, 0.50‰ BAC or 0.25mg/L BrAC	Refer to the following attached figure ①②

LCD Screen



Precautions

- Your blood alcohol content (BAC) may change some minutes later.
- The risks related to the use of a unit with an expired calibration and exceeded the test time.
- For your safety and responsibly, don't drink and drive.

Calibration

- The sensor may change the performance some month later.
- For better accuracy, suggest recalibration once per 12 months or used 500 times
- Contact your service agent in detail.
- The risks related to the use of a unit with an expired calibration period and exceeded the test times.

Accessories

- Mouthpieces
- Car smoking plug DC 12V adapter
- Portable bag

Specifications

- European Fuel Cell Sensor (Electro-chemical sensor)
- Display range: 0 -1.500mg/L BrAC; (3.000‰BAC, 0.300‰BAC)
- Accuracy: +/-0.03mg/L (0.05‰, 0.005%) at set point.
- Set point:0.25mg/L BrAC (0.50‰BAC, 0.05‰BAC)
- Memory record for 1000 datas.
- Warm up time: 15 seconds.
- Testing Time: 10 seconds.
- Repeat test: less than 60 seconds.
- Audible sound alarm if above set point.
- Indication: 4 digits LCD with status and backlight.
- Power supply: 9V alkaline battery (not included) or 12V DC input.
- Battery available for standard testing is about 500 times.
- Low battery indication and auto off function.
- Operation: 0°C ~ +40°C; Store: -10°C ~ +50°C
- Calibration interval: 12 months.
- Blowing pressure and interrupt detection.
- Disposable mouthpiece with individual package.
- Size: 115x60x23mm.
- Active & Passive operated function.
- Temperature indication for °C or °F.
- Download memory to PC by USB-RS232 cable.
- Print the last tested data by RS232 specific printer.

Manufactured for:
Express Diagnostics Int'l, Inc.
Blue Earth, MN 56013

- ⚠ Your blood alcohol may change some minutes later.
- ⚠ Do not use this device to determine if you can drive.
- ⚠ Do not drink alcohol and drive. Be safe on the way.