



RETURN FOR REPAIR POLICY

Every effort has been made to provide reliable, superior quality products. However, in the event your instrument requires repair, forward unit to Service Center freight prepaid to the address below with return address, phone number and/or email address.

TECHNO TOOLS CORP.
SERVICE CENTER
2651 W 81st Street
Hialeah, FL 33016

WARRANTY POLICY

The D540 Combustible Gas Leak Detector is warranted to be free of defects in materials and workmanship for a period of three years from the date of purchase including an industry first two year warranty on the sensor. This warranty applies to all repairable instruments that have not been tampered with or damaged through improper use including unauthorized opening of the unit. Please ship warranty units that require repair freight prepaid to Service Center along with proof of purchase, return address, phone number and/or email address.

Made in U.S.A
Techno Tools Corp.
261 W. 81st Street
Hialeah, FL 33016
Printed in U.S.A.



Model D540 Combustible Gas Leak Detector

Detects all Hydrocarbon and other
Combustible Gases

User Manual



MSHA APPROVED
INTRINSIC SAFETY



INTRODUCTION

The D540 features a long life heated sensor technology that is designed to detect all combustible gases including Methane, Propane, Butane, Acetylene, Alcohol, and Gasoline.

The D540's unique digital leak size indicator takes the guesswork out of whether or not to repair a small leak. The digital display is independent from the audio alarm and sensitivity level, allowing the precise pinpointing of the leak source.

The D540 does not require rechargeable batteries. An optional detachable LED light will soon be available that clips on to the probe to facilitate leak detection in low light environments.

FEATURES

- Unique numeric leak size Indicator
- Methane sensitivity <10 ppm
- Low battery indicator
- Audio mute function
- Intrinsically Safe Certified
- Bright 3 LED detachable light (optional)
- 2- year warranty including 2 years for the sensor
- Long life, stable sensor
- Automatic calibration and reset to ambient
- 3 adjustable sensitivity levels
- Uses 4 AA alkaline batteries
- Comfortable Sanoprene grip
- CE Certified
- Made in USA

Replacement Parts

Item	Part Number
Sensor	D540-1
Sensor Cover	D540-2
Test Vial	D540-3
Carrying Case	D540-4
Instruction Manual	D540-5

Product Specifications

Model #	D540
Name	Leak Detector, Combustible Gas
Sensitivity	<10 ppm Methane
Sensor Life	> 300 hours
Response Time	Instantaneous
Power Supply	4 AA Alkaline batteries
Battery Life	20 hours continuous
Warm up time	< 10 seconds
Probe length	17 inches
Numerical Display	7 segment digital display (1 to 9)
Weight, lbs	1.5 lbs
Warranty	2 years (2 yrs for sensor)

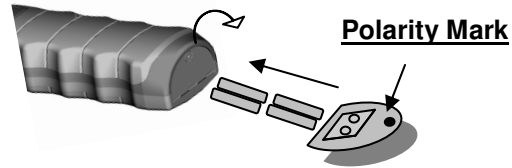
Partial List of Detectable Gases

<ul style="list-style-type: none"> • METHANE • PROPANE • ETHANE • BUTANE • HYDROGEN • ETHYLENE • ETHANOL • ISO-BUTANE • NOL • GASOLINE 	<ul style="list-style-type: none"> • ACETYLENE • METHYL ETHER • AMMONIA • H. SULFIDE • INDUSTRIAL SOLVENTS • BENZENE • ALCOHOLS • ACETONE • TOLUENE • XYLENE
--	--

Maintenance

Batteries:

Install Batteries: Remove screw located at rear end of unit and pull down hinged battery door to open as shown. Always insert all 4 batteries into the compartment in the same direction. Note the polarity mark on the inside of the battery door for proper battery installation.



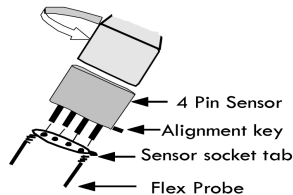
Sensor:

To Replace Sensor: Remove sensor by unscrewing sensor cover. Install the new sensor by aligning the notch in sensor socket with the raised tab on socket holder (see figure below).

Note: Do not force sensor into socket. Misalignment can damage the sensor pins.

Unscrew cover to replace sensor

Push straight on (do not twist) to install sensor



D540 Control Panel



Operating Instructions

1. **TURN ON:** Press the ON/OFF button once to turn on and again to turn off.
2. **WARM UP:** The detector automatically starts heating the sensor. During the heating cycle, the digital leak size indicator will flash **0** and the detector will sound a slow “beep”. Warm up is usually less than 10 seconds.
3. **READY:** The detector is ready to begin searching for leaks when the flashing **0** stops and the green sensitivity LED turns on. The audio “beep” increases in frequency and probe LED begins to blink steadily.

Leak Size Indicator

The digital leak size indicator remains off normally but once a leak is detected, a number from 1-9 will be displayed for all combustible gases *regardless of the sensitivity setting*.

The number will continue to increase or decrease depending on the amount of combustible gas sensed. The maximum value will be displayed once the leak source has been located.

Low Battery Indicator

Replace the 4 AA Alkaline batteries when the red LED on the control panel is lit. Follow battery installation instructions under **Maintenance** section.

Audio Mute Function

To silence or mute the audio beep and alarm signal, press the MUTE button. To restore the audio sound, press the MUTE button again. (Note: a few seconds is required to restore sound if the mute button is pressed in rapid succession.)

Adjusting Sensitivity Levels

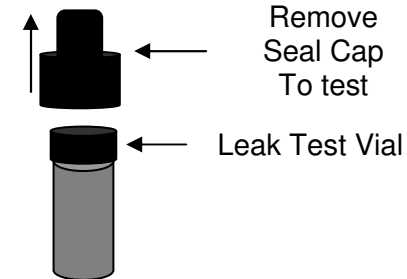
The Leak Detector will default to the NORM sensitivity level automatically once the unit comes out of the warm up cycle and the green LED will turn on.

To change sensitivity levels, press the SENS once for HI sensitivity (red LED will turn on) and again for LO sensitivity (yellow LED will turn on).

Leak Test Vial

The leak detector comes with a Leak Test Vial that allows the user to make sure the detector is performing properly. To test:

1. Remove the plastic seal cap on top of the Leak Test Vial by pulling it off (see fig. below).
2. Turn on the detector and allow the unit to complete the warm up cycle.
3. Place the sensor close to the small hole in the top of the Leak Test Vial. The beep rate should increase and the Digital Leak Size Indicator should display a number from 4-6 indicating that the sensor and electronics are working properly.



NOTE: Always remember to replace plastic seal cap after leak test is completed. Replace Test Vial when the green color is no longer visible.