



RETURN FOR REPAIR POLICY

Every effort has been made to provide reliable, superior quality products. However, if you have any problems with this unit

PLEASE call the 1-800 number listed below for troubleshooting assistance before returning the product for repair or exchange.

In the event your instrument requires repair, you can forward the unit to the Service Center freight prepaid to the address below with return address, phone number and/or email address.

SERVICE CENTER
2651 W 81st Street
Hialeah, FL 33016
1-800-222-0956

WARRANTY POLICY

The ATD-3700 Refrigerant Gas Leak Detector is warranted to be free of defects in materials and workmanship for a period of two years from the date of purchase. 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.



ATD TOOLS
www.atdtools.com



Model ATD-3700 Refrigerant Gas Leak Detector

Detects all CFC, HFC, HCFC
Refrigerants including blends

User Manual



**Certified
SAE J1627**



INTRODUCTION

The ATD-3700 features a long life heated sensor technology that is designed to detect the more current and difficult HFC refrigerants such as R-134a in addition to all HCFC (R22) and CFC (R12) refrigerants including SNAP approved hydrocarbon blends.

The ATD-3700'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 ATD-3700 does not require rechargeable batteries. An optional detachable UV light will soon be available that clips on to the probe to allow both electronic or UV detection with one tool.

FEATURES

- Unique numeric leak size Indicator
- R134a sensitivity .05 oz/yr
- Designed to meet new SAE 2791 standard
- Visual LED leak alarm near sensor
- Low battery indicator
- Audio mute function
- SAE J1627 Certifiable
- Bright 3 LED detachable UV light (optional)
- 2- year warranty includes sensor
- Long life, stable sensor
- R22 sensitivity .025 oz/yr
- Automatic calibration and reset to ambient
- 3 adjustable sensitivity levels
- True mechanical pump
- Uses 4 AA alkaline batteries
- Comfortable Sanoprene grip
- CE Certified
- Made in USA

Replacement Parts

Item	Part Number
Sensor with Filter	PRT3700-01
Sensor filters (5 pack)	PRT3700-02
Leak Test Vial	PRT3700-03
Parts Kit (includes sensor, test vial, & filter kit)	PRT3700-04
Carrying Case	PRT3700-05

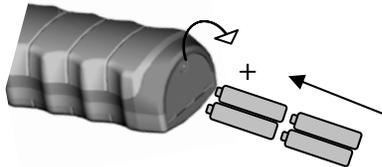
Product Specifications

Model #	ATD-3700
Name	Leak Detector, Refrigerant Gas
Sensitivity	.05 oz/yr R134a .025 oz/yr R22
Sensor Life	> 300 hours
Response Time	Instantaneous
Power Supply	4 AA Alkaline batteries
Battery Life	8 hours continuous
Warm up time	< 20 seconds
Probe length	17 inches
Numerical Display	7 segment digital display (1 to 9)
Weight, lbs	1.5 lbs
Warranty	2 years (includes sensor)

Maintenance

Batteries:

Install Batteries: Remove screw located at rear end of unit and pull down hinged battery door to open as shown. Insert positive battery (+) end towards the front of the battery compartment

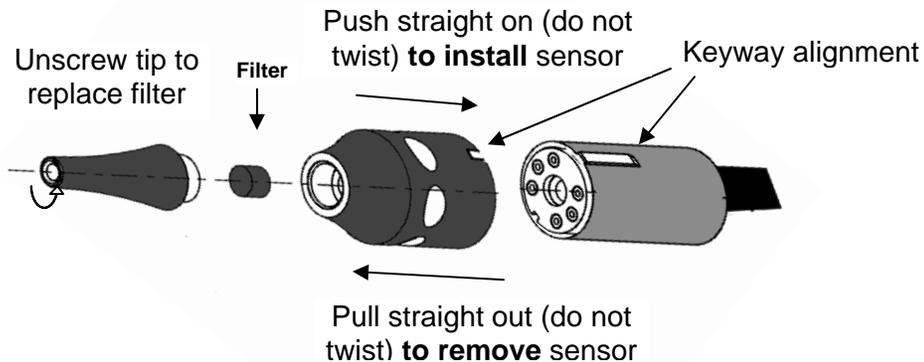


Sensor:

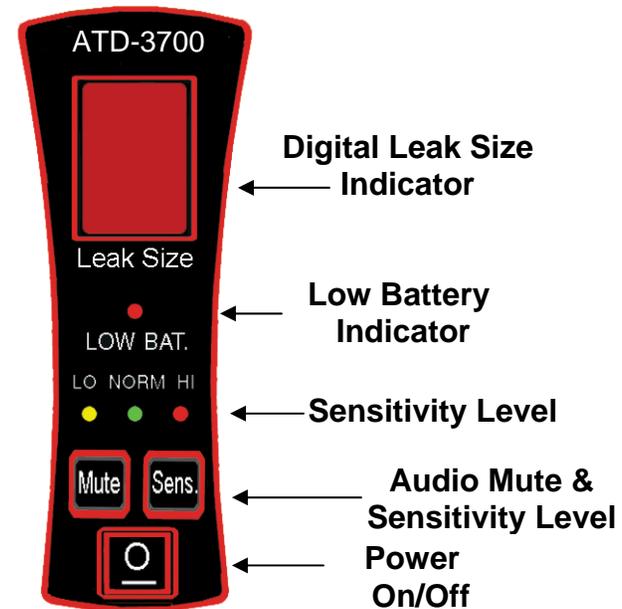
Replace Filter: Unscrew sensor tip as shown to replace filter. Replace filter whenever it becomes visibly dirty or every 2 to 3 months depending on use.

Replace Sensor: Remove sensor by pulling out of socket. Install the new sensor by aligning the notch in sensor cover with the raised keyway on sensor socket holder (see figure below).

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



ATD-3700 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 8 and the detector will sound a slow "beep". Warm up is usually less than 20 seconds.
3. **READY:** The detector is ready to begin searching for leaks when the flashing 8 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 HFC and HCFC refrigerants *regardless of the sensitivity setting*.

The number will continue to increase or decrease depending on the amount of refrigerant sensed. The maximum value will be displayed once the leak source has been located. The table below can be used to approximate the size of leak:

Maximum # displayed	Leak Size (oz/yr)
1 -3	< 0.1
4-6	0.1 to 0.5
7-9	>0.5

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

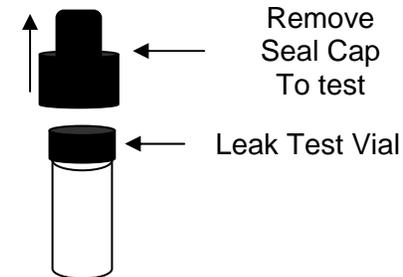
The Leak Detector will default to the NORM sensitivity level automatically once the unit comes out of the warm up cycle and the green LED will turn on.

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.