

## Specifications

Suitable detector types	: Rate of Rise and Fixed Temperature up to 194°F
Maximum detector size	: Any – provided sensing element can be sealed within cup
Number of tests	: Unlimited, if using one Baton whilst charging another
Maximum height	: Up to 10ft using Solo 461 Up to 30ft using Solo extension poles
Safety Features	: Battery over-current cut-out : Element safety cut out after 120 seconds : Auto power off after 5 mins
Operating features	: Color coded LED user feedback : Automatic starting of test via infrared sensing of detector : Multi position user head for alignment of detector : Recharge time of Battery Baton of 1 hour using fast charge : Charger operates from car (12V DC) or 115 AC : Battery life : in excess of 500 cycles
Environment	: Operating temperature: 40°F to 115°F : Storage Temperature: 15°F to 120°F : Humidity: 0-85% RH non-condensing

## Safety Notes:

- ◆ The heat duct inside the Cordless Heat Detector Tester should not be touched during operation.
- ◆ Before using this product with SOLO™ telescopic or extension poles, ensure all sections are fully locked into position.

## Other Products Available from your Supplier

- **SOLO™ 100** Telescopic pole, extendable, non conductive for accessing detectors at height to 20ft. Compatible with all other SOLO tools
- **SOLO™ 101** Extension pole, non-conductive rigid pole section. For use on its own or to extend SOLO™ 100. Max of 3 recommended to reach up to 30ft
- **SOLO™ 200** Universal detector removal / replacement tool
- **SOLO™ 300** Smoke detector tester (aerosol dispenser)
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- **SOLO™ 600** Protective Carrying and Storage Bag
- **SOLO™ 721** Replacement Battery Batons
- **AERO 100** Aerosols for use with SOLO™ 300

## Important Note:

*The Cordless Heat Detector Tester is a functional tester - not a calibration device. When testing spot type combination rate of rise and fixed temperature heat detectors ensure that the Cordless Heat Detector Tester is removed as soon as the detector is initiated.*

*Continued application of heat could cause permanent damage to the fixed temperature element.*

*Do not attempt to test non-restorable / fusible link type detectors with this tool.*



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## Cordless CAT™ 461 Heat Detector Tester



## Brief Description

The product is designed to test spot-type, fixed and rate of rise heat detectors.

Virtually all known detectors fit into the opening of the clear cup and membrane, and can be easily tested.

Hot air is blown from the side duct into the detector under test, and it will only take a short amount of time for the detector to alarm.

Even though the device is quiet and small, and uses only battery power, a significant amount of heat is deployed. Detectors should not be subjected to testing for longer than necessary to set them into alarm.

After long periods of testing on a detector without an alarm signal, there is a danger that damage may occur to the detector, so the tool will automatically cease any one test after 120 seconds.

## General Principles

- ◆ Performs functional tests on most types of heat detector without the need for cables.
- ◆ Operated by rechargeable NiCd (Nickel Cadmium) Battery Batons™ mounted within SOLO™ 100 or 101 (Telescopic or extension) pole.
- ◆ Infra-red beam senses heat detector presence, switching the product from standby to operational mode during a test, conserving energy.
- ◆ Timed cut-out to help prevent damage.
- ◆ Interchanging fully charged Battery Batons™ allows virtually unlimited testing



## Instructions for use for Cordless CAT™ 461 Heat Detector Tester

- ◆ Insert a charged Battery Baton™ into handle of Head Unit and ensure button is fully engaged.
- ◆ If testing a combination rate-of-rise / non-restorable detector, insert silicon baffle between duct & platform to ensure correct airflow.
  - Line up baffle with duct lip upwards
  - Push down until edge engages under duct outlet.
  - To remove, push baffle sideways
- ◆ Press the red switch to turn on. The LED illuminates green and begins to flash at a slow rate. This indicates normal STANDBY mode.
- ◆ Position the latch mechanism at the required angle for access to the detector to be tested.
- ◆ Raise the tool and place it over detector to be tested, ensuring that the tool is held level and the detector remains central, touching the rubber stops in the base of the clear cup.
- ◆ The tool will automatically start testing. The green LED will flash faster.
- ◆ Hold the Cordless Heat Detector Tester in place until the alarm is activated.\*



*(\*If the detector fails to activate it may be faulty. Insert a replacement detector and test again)*

- ◆ When the detector alarms, remove the tool from the detector. It will revert to standby mode (slow flashing green LED) and the internal blower will cool the heating element for a few seconds.

*(Never block the ventilation hole in the side of the cup, which ensures correct airflow.)*

- ◆ LED flashing red at any time is a warning that the battery is nearly exhausted. Normal testing can continue for the time being.
- ◆ LED constantly red indicates an error or that the battery is fully exhausted and testing cannot continue.
- ◆ LED flashing alternate red and green signifies test time has exceeded 120 seconds, and the tool has automatically terminated the test. It will return to standby when removed from the detector.
- ◆ After testing, switch off to prevent accidental trip from standby into operational mode and to preserve battery life.
- ◆ To turn off, press the red switch. The tool features an automatic power-saving feature, which will turn it off after five minutes if not used.
- ◆ Only use with SOLO™ Battery Batons and only charge the Battery Batons with the SOLO™ Charger (see over for charging instructions).
- ◆ To remove Battery Baton™, press the black button whilst pulling the baton *straight* away from the Head Unit. Take care not to twist the Baton whilst removing it. It is normal for the Battery Baton™ to get slightly warm during use.

## Battery Charging Instructions and General Information

- ◆ Ensure that the voltage selector on underside of the charger is set correctly to **115V**.
- ◆ Connect Charger to power or lighter socket in a car / van using the lead supplied or the umbilical DC connecting lead. Power LED and Trickle Charge LED will be illuminated.
- ◆ Connect Battery Baton™ to Charger. Trickle Charge LED will go out and Fast Charge LED will illuminate.
- ◆ After approximately one hour (for a fully discharged battery), the Fast Charge LED will extinguish and the Trickle Charge LED will illuminate. Both the Battery Baton™ and Charger may get slightly warm. This is normal.
- ◆ Should both trickle and fast charge LEDs flicker rapidly, then it is likely that the battery is fully charged, but has not been discharged since charging recently. Eventually, the fast charge LED will extinguish and the trickle charge LED will remain on fully.
- ◆ Battery Charger and Battery Baton™ can remain connected to the power supply for several hours after full charge has been reached. This will not damage battery or charger and maintains battery in a fully charged state, ready for immediate use. If Battery Baton™ is not to be used for some time (i.e. within the next day), it is advisable to unplug the charger from its power supply.
- ◆ Although rechargeable in any state (fully or partially discharged), Battery Batons™ should be fully discharged in normal use and then fully recharged, to ensure the longest possible battery life.
- ◆ Charger mains leads for a range of international plug outlets are available from your supplier.
- ◆ As with all rechargeable batteries, after a few hundred cycles of normal use your Battery Baton™ will eventually reach the end of its usable life, and will hold less charge or not recharge properly.
- ◆ NiCd batteries must be disposed of at a recognised recycling centre. Local refuse collection authorities can advise on the best method of disposal.
- ◆ Battery Batons™ leave the manufacturer fully charged. Depending on the length of their subsequent storage, they may require recharging before use.