

# BURGLAR BLASTER ANTIBURGLARY DEVICE INSTALLATION AND OPERATING INSTRUCTIONS

## WARNING:

1. For safe, reliable operation, read instructions fully before installation.
2. Do not install in areas where infants or physically handicapped people are normally present.
3. Do not install in buildings where multiple tenants share a common ventilation system.
4. Do not install in aircraft or in passenger compartments of trucks or autos.

## APPLICATIONS

The BURGLAR BLASTER may be used in the following areas: residences, vacation homes, offices, garages, shops, warehouses, businesses, barns, hunting lodges, and storage sheds.

The BURGLAR BLASTER is intended for indoor use. Operation may be impaired by rain, moisture or subfreezing temperatures.

## DESCRIPTION

The BURGLAR BLASTER is based on the use of a four oz. aerosol can containing oleo resin capsicum (OC pepper) triggered by an infrared detector. This IR detector senses the presence of an intruder by picking up the heat radiating from his body as he passes in front of the BURGLAR BLASTER. The range of the IR detector is from 3 to 100 ft. The IR detector is powered by an independent 3v lithium battery.

The detector sends a signal arming the control circuit. This circuit begins a time delay countdown. The time delay is adjustable from 1 to 55 sec. During the countdown the unit sounds a warning tone to remind forgetful owners to turn off the system. This is a high frequency tone designed to confuse the intruder since at this frequency his ears are unable to direct him to the source of the tone. When the time delay expires, the aerosol fires, releasing enough OC to control a maximum of 2000 square feet of unobstructed indoor space. Complete discharge occurs in approx. 25 sec.

The BURGLAR BLASTER is turned on and off by either the key switch on the front, or a concealed rocker switch underneath. These two switches are wired in parallel. The unit is on when either switch is on, and off only when both switches are off.

Power is supplied by 8 "C" cells. Battery life is approximately shelf life since power consumption is zero except when detecting or firing. The control circuit automatically resets 90 sec. after firing.

A push button on the front of the unit initiates a 90 sec. exit time delay which allows the owner to pass in front of the BURGLAR BLASTER on the way out without setting it off. A green LED illuminates while the button is depressed to inform the owner that the exit

delay is initiated. Failure of the LED to light means one of three things:

1. The BURGLAR BLASTER has not been turned on.
2. The detection circuit is already activated and is counting down.
3. The "C" cells are low and should be replaced.

The BURGLAR BLASTER is equipped with an empty can alarm since it may not always be obvious to the owner that an intruder has set off the system. An owner arriving many hours or days after an incident may not notice any trace of the OC and therefore not realize that the unit is now empty. A flashing yellow LED and a warble tone will be emitted from the BURGLAR BLASTER whenever the firing mechanism is tripped and the power is on. Replacing the can recocks the firing mechanism and silences the empty can alarm. Additionally there is a red spot on the firing mechanism next to the aerosol nozzle that becomes visible from the front of the unit when the can has been fired.

## SELECTING A LOCATION

The BURGLAR BLASTER must be mounted on a flat vertical wall. Locate the BURGLAR BLASTER in an area where the intruder is sure to pass. It is best to locate the unit where the intruder will cross the detection zones in a somewhat perpendicular direction. The detection pattern is shown on the N100 instruction page.

Where possible install the unit 4 to 5 ft. above the floor. Try to locate the unit so the intruder will pass by at a distance between 3 and 20 ft. Avoid locating the BURGLAR BLASTER where the detection zones point toward a window, or heating or air conditioning registers since these sources of temperature fluctuations could disturb the IR detector, causing a false trip. Also avoid locations that receive direct sunlight. If there are dogs or cats present, be sure that they cannot enter the detection zones by climbing on furniture. (OC in normal concentration will not harm dogs or cats)

## INSTALLATION

1. Check that the rocker switch is off.
2. Check that the key switch is off. (counterclockwise)
3. Install 8 new "C" cells
4. Mount on the wall using the screws provided or other fasteners appropriate to the surface.
5. Remove the can retainer pin from the side of the BURGLAR BLASTER housing.
6. Slide the DUMMY CAN into the unit and reinsert the pin.

## TESTING

All testing is done using the DUMMY CAN.

Do not install the OC can until all testing is complete.

## Battery Test

The exit delay push button and green LED provide a battery test function.

1. Stand clear of the detection zones for at least 4 seconds.
2. Turn on the rocker switch.
3. Depress and hold the push button switch and check for a glow on the green LED.
4. Shut off the rocker switch when finished.

5. No glow means batteries may be weak or improperly installed

Note: If the detection circuit is triggered before the batt test/exit delay push button is pressed, the detection circuit will lock out the batt test/exit delay function and you will not get a green light. If this happens turn the power off, wait a few seconds and try again. If the mechanism should fire and the empty can alarm sounds its warble tone, remove and reinstall the DUMMY CAN to recock the firing mechanism and silence the warble.

## Functional Test

Stand clear of the detection zones for 4 seconds and turn on the BURGLAR BLASTER using either the concealed rocker switch or key switch (NOT BOTH). The warning horn should remain silent. Walk through the detection zones. The warning horn should give a continuous tone for the duration of the entry time delay (1 to 55 sec) followed by a click followed by a warble tone as the empty can alarm begins. The yellow LED should be flashing, and the red spot on the depressor mechanism should be visible next to the nozzle on the DUMMY CAN.

Shut off the power. Remove and reinstall the DUMMY CAN. The warble should be silent and the yellow LED should be off.

The factory setting for the entry time delay is about 10 to 20 sec. To change it, use a small screw driver on the adjustment point shown in figure A. Turn very gently to avoid damage to the control. Make only small adjustments. Counterclockwise is shorter, clockwise is longer. Redo the functional test and note the time delay. Repeat the adjustment and functional test until you have the time delay you want.

## Exit Delay Test

The exit time delay is nonadjustable and is approximately 90 sec. duration. To test the exit delay stand clear of the detection zones for 4 sec. then turn on the unit and depress the push button. A momentary glow of the green LED indicates the exit delay is set. Walk in front of the detection zones. You should be able to walk around in front of the unit for about 1-1/2 minutes before the detection circuit is reactivated and the warning tone sounds.

## NORMAL OPERATION

### Setting:

1. Stand clear of the detection zones.
2. Wait 4 seconds.
3. Turn on either the key switch or rocker switch. (NOT BOTH)
4. Depress the push button and observe that the green LED lights momentarily.
5. Depart within 90 sec.
6. If you hear the warning horn while departing, return immediately, shut off the unit and repeat the setting process.

## Reentering (Unsetting)

1. Upon returning when you walk into the detection zones you will hear the warning tone reminding you to shut off the BURGLAR BLASTER. Turn off the key switch (or rocker switch) before the time delay, you have set during testing, expires.

You may wish to practice using the BURGLAR BLASTER for a day or two with the DUMMY

CAN. Depending on your layout you may not even need to use the exit delay push button if you can avoid the detection zones as you exit after turning the unit on. If you accidentally stray into the zones the warning horn will sound telling you that you need to shut the BURGLAR BLASTER off before the entry time delay expires and then try again. When entering the building and approaching the unit through the detection zones the warning horn will sound and you must merely shut off the unit before the entry time delay expires.

When familiarization is complete, replace the DUMMY CAN with the OC CAN. Stand to the side while inserting a live can. Be sure that the nozzle is pointing forward.

Normally the BURGLAR BLASTER would be set when the property is left unoccupied. But, as an example, a unit in the living room may be set at night before retiring. In this way the BURGLAR BLASTER can repel a home invader before he reaches your bedroom door. The OC will not easily get past a closed bedroom door.

#### OPTIONAL FEATURES

1. Auxiliary sensor switches can be used to trigger the BURGLAR BLASTER. The switches must be normally open (close on activation). If used, the aux switches must be wired in parallel with terminals 1 and 2. Refer to figure B. Use only reliable sensors. Additional N100 IR detectors like the one in the BURGLAR BLASTER are available separately.
2. An auxiliary bell, siren, or dialer can be connected to terminals 3 and 4. Maximum current rating is 800 ma at 12 volts dc. Devices must be wired with proper polarity. Terminal 3 is plus(+) and 4 is minus(-). Note: The auxiliary circuit is energized only after the aerosol is triggered, and remains energized for approx. 90 sec.
3. Additional anti burglary devices (Repulsar I and the Repulsar IV) can be wired to terminals 5 and 6. See figure B. Observe proper polarity.

#### MAINTENANCE

1. The can of OC aerosol contained in your BURGLAR BLASTER is pressurized and has a shelf life of 3 years. Please note the expiration date on the can and order a replacement at that time.
2. The 8 "C" cell batteries should be replaced whenever the battery test circuit indicates low battery level.
3. The IR detector has its own independent power source, a lithium battery with an estimated life of 10 to 20 years. A low battery level is indicated by a reduced detection sensitivity. The battery is soldered in place in the detector. Return to us or local electronics technician for replacement.

#### RELOADING

To replace the can, pull the retainer pin on the side of the BURGLAR BLASTER housing. The old can should drop out. Stand to the side of the BURGLAR BLASTER to insert a new can with the nozzle pointing forward and slip the can retainer pin into place. Do not use anything other than a Heracles Research Corporation replacement can since poor performance or damage to furnishings could result.

#### ABOUT OC PEPPER

Oleoresin capsicum (OC) is a natural food additive derived from hot peppers. In aerosol form, even in light concentrations, it will cause uncontrollable coughing. In higher concentrations, the coughing is worse accompanied by a choking feeling and nausea. Other effects are a burning sensation in the eyes and excessive tearing. Heavy exposure may also cause a burning sensation on exposed skin. It is nearly impossible to accomplish any task in the presence of this material and a person's primary concern is to get away.

#### TREATMENT FOR EXPOSURE

For light or indirect exposure, simply move to an unaffected location. The effects should subside and disappear within 30 to 45 minutes.

For heavy exposure affecting the eyes, flush with cool clear water. For heavy skin exposure, remove saturated clothing, and wash the affected area with soap and water. Shower at your earliest convenience. If symptoms persist see a physician.

Note: Allergy sufferers may have extra sensitivity to OC.

#### CLEARING OC AFTER DISCHARGE

The aerosol in the exposed room will typically dissipate in 3 to 4 hours. Residue will usually be unnoticeable but may be removed if desired by normal household cleaning procedures. Avoid sweeping. Ventilation will speed the airing out process.

#### LIMITED WARRANTY

This warranty is exclusive and in lieu of all warranties whether expressed or implied or statutory. Heracles Research Corporation Technology, Inc., hereafter referred to as Heracles Research Corporation, warrants its products for one year from date of shipment.

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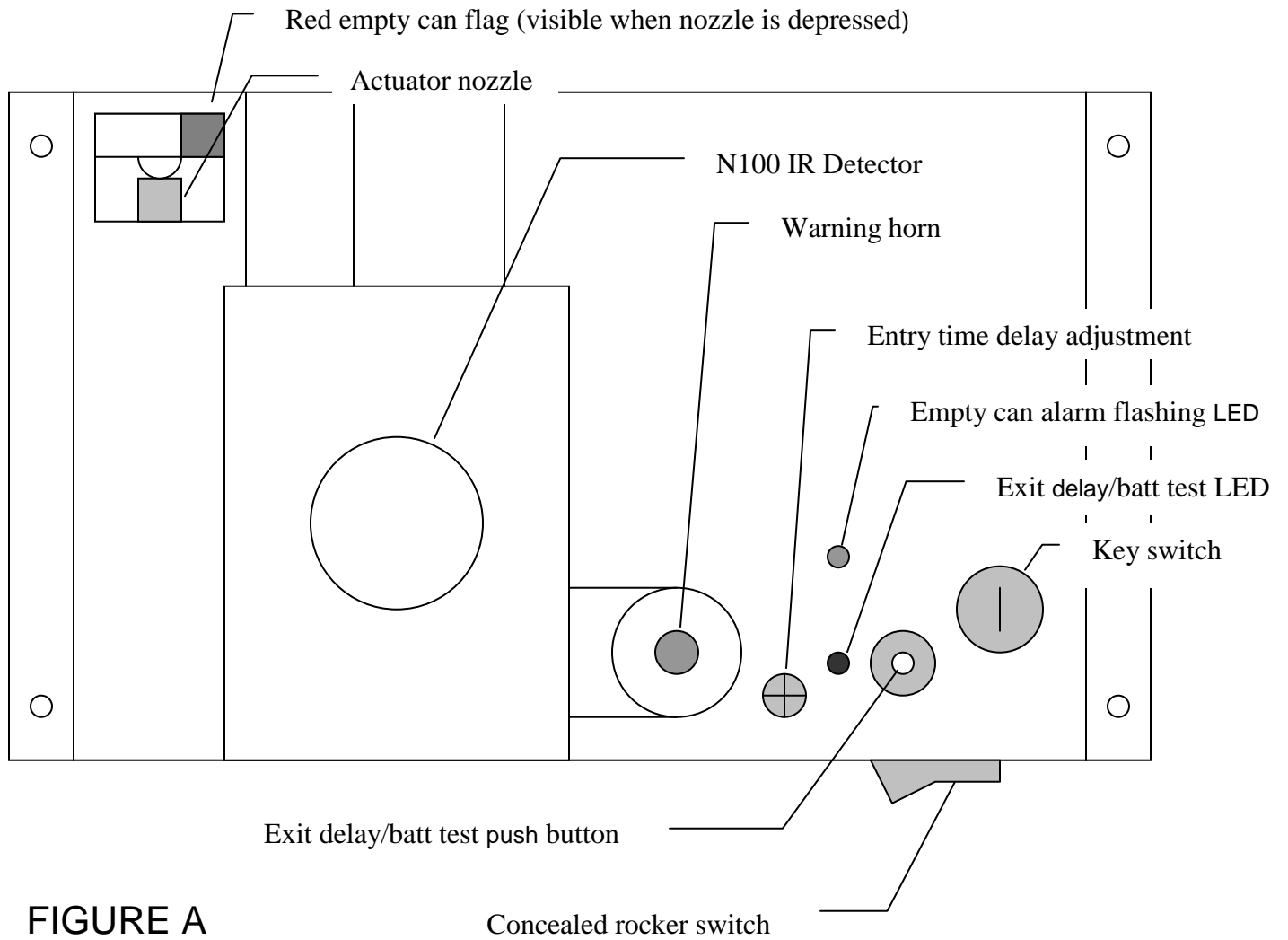


FIGURE A

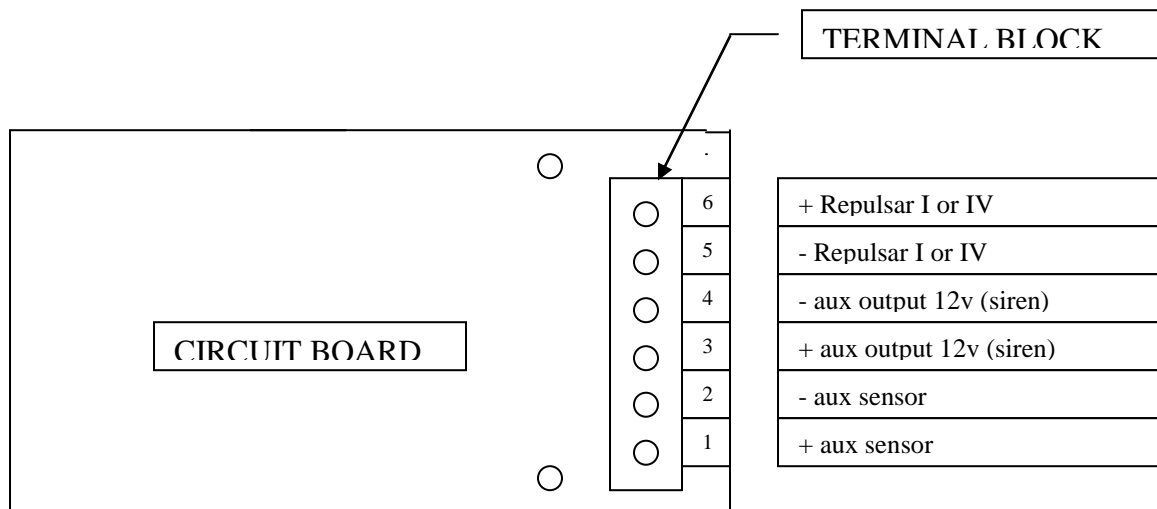


FIGURE B