

REPULSAR I ANTIBURGLARY DEVICE INSTALLATION AND OPERATING INSTRUCTIONS

WARNING

1. For safe and reliable operation read all instructions fully before installing.
2. Do not install the Repulsar I 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, boats, or in passenger compartments of trucks or autos.

APPLICATIONS

The Repulsar I is ideal for use in the following areas:

| | | |
|------------------|----------------|------------|
| Residences | Retail Shops | Barns |
| Vacation Homes | Hunting Lodges | Warehouses |
| Business Offices | Storage Sheds | Garages |

The Repulsar I is intended for indoor use only. Operation may be impaired by rain or moisture.

DESCRIPTION OF OPERATION

The Repulsar I is a ceiling mounted unit based on the use of 6 ounce aerosol can containing oleoresin capsicum (OC pepper) equipped with a total release actuator. When this actuator is depressed it locks in the spray position allowing total release of the contents. The can is suspended in a guide tube by a stainless steel wire trigger latch. When the trigger is pulled by the solenoid the can drops down the guide tube until the actuator tab strikes the impactor, thus releasing the OC which sprays downward. The OC then disperses quickly throughout the room causing the intruder to flee within a matter of seconds.

The solenoid is connected to a time delay circuit with a time setting control. When the control knob is fully counter clockwise the time delay setting is zero. When the knob is fully clockwise the time delay is 35 to 40 seconds.

The Repulsar operates on 12 volts DC supplied externally from an alarm system or other control circuit. This power source must be filtered with a current capability of 1 amp. For a typical installation the Repulsar would be wired to the terminals of a 12 volt alarm system that are normally connected to a siren or bell. If you do not have a suitable alarm system and do not wish to get one, then the Repulsar can still be made operational with only a few items as indicated in Figure 2.

INSTALLATION

The Repulsar I is intended for ceiling mounting only. Screws are provided that are suitable for mounting to a wooden or other solid surface. These screws are not suitable for plaster or dry wall which require the use of molly bolts of proper length, or other appropriate fasteners. In order to install the Repulsar I a cutout in the ceiling is necessary. The cutout should be a 5 inch diameter circle. Be sure the cutout falls **between** the overhead rafters to allow clearance for the guide tube and solenoid. The Repulsar I will fit any ceiling framed with 2 x 8's or larger.

The Repulsar I can be mounted in a suspended ceiling by using a backing board of 3/4" plywood. The backing board in this case should be at least 1 foot wide by 2 feet long so that it spans the ceiling panel from track to track. Use No. 8 wood screws of appropriate length to provide at least 2/3" penetration into the backing board.

A pair of wires (16-22 ga.) must be routed to the ceiling opening and connected to the terminal block on the circuit board before fastening the Repulsar to the ceiling. Observe proper polarity as shown in Figure 1. Reverse polarity could damage the circuit and will void the warranty. The other end of the pair should be connected to the 12 volt output terminals of the alarm system (normally used for a bell, siren or auxiliary equipment) or to a separate power supply triggered by an alarm system contact closure.

SPECIAL NOTES

1. The mounting into the ceiling must be solid, not flexible. Use appropriate screw anchors and bracing.
2. The cans in the Repulsars must be kept below 120 degrees Fahrenheit by some combination of insulation and/or ventilation.
3. Do not mount Repulsar units directly over items of value since the unit may drip as the can empties. The drips may damage some finishes such as varnishes and plastics.

TESTING

Note: Do not insert the aerosol can until all preliminary testing is completed. With the Repulsar I properly wired to your control system components you are ready for testing. First set the time setting control knob to a mid point setting. Refer to Figure 1. Turn on the control system. The Repulsar should remain silent. Trigger the control system by operating one of the sensor switches. The Repulsar warning horn should sound for approximately 20 seconds and then stop. At the moment the warning horn stops you should hear a click coming from the solenoid. Adjust the time setting control knob and repeat the test until the desired time delay is achieved.

The next test is functional testing and includes the aerosol can. **THIS TESTING IS PERFORMED WITH THE AEROSOL CAN SHIPPING CAP ON.** Turn the can upside down and place the disc shaped ballast weight in the bottom of the can. Turn off the alarm system. Insert the aerosol can into the guide tube upside down (shipping cap pointing downward). Push the can with ballast weight up into the guide tube until the can locks into position. Rotate the impactor into the set position as shown in Figure 3. Repeat the test as done in the previous paragraph. This time the can should drop down and the shipping cap should strike the impactor. This test may be repeated several times to assure proper operation. Upon completion of the tests rotate the impactor to remove the aerosol can.

***CAUTION:** When adjusting the can orientation and impactor position during the following steps it is wise to keep a finger partially inserted into the guide tube so

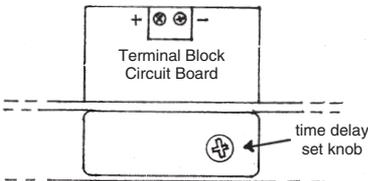


Figure 1

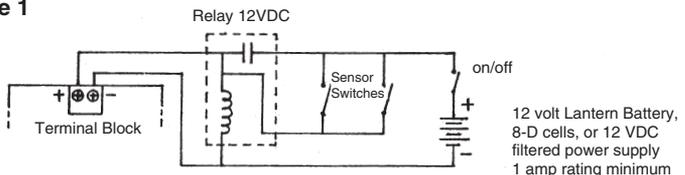


Figure 2

that if the can should accidentally drop you do not get hit on the head with it or get sprayed in the face.

Remove the shipping cap from the can. During this next step be careful not to push on the actuator tab on the aerosol can. Carefully insert the aerosol can with ballast weight into the guide tube until it locks in position. Rotate the aerosol can and the impactor until they are properly aligned as shown in Figure 3. Your Repulsar I is now operational.

RESETTING

When a Repulsar has been discharged the aerosol can must be replaced before the unit can be reused. Replacement cans are available from BurglarBomb and include instructions for replacement. Do not use anything other than a Burglar-Bomb replacement can since poor performance and damage to furnishings could result.

ABOUT OC PEPPER

Oleoresin capsicum (OC) is a natural nontoxic food additive derived from hot peppers. It is also an inflammatory agent. 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.

CLEARING OC PEPPER AFTER DISCHARGE

Ventilate the affected area with outside air for a full air exchange. Use a fan if necessary. Remaining aerosol normally clears in three to four hours. No cleanup is required since any residue is likely to be so slight as to be undetectable. Normal household cleaning procedures may be used as desired. Avoid sweeping.

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. Remove contact lenses. For heavy skin exposure, remove saturated clothing, and wash the affected area with nonoily soap and water. Baby shampoo works well. Shower at your earliest convenience. If symptoms persist see a physician.

Note: Allergy sufferers may have extra sensitivity to OC.

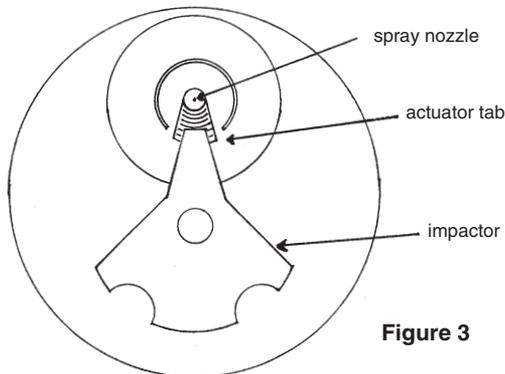


Figure 3

IN CASE OF DIFFICULTY

Symptom

Possible Causes

- | | |
|---|---|
| 1. Warning horn does not sound | a. Input polarity is reversed b. Power is not reaching the Repulsar. c. Time delay control knob is fully counter clockwise. |
| 2. Aerosol can does not drop | a. Insufficient voltage or current capability from the alarm power supply. b. Bent trigger wire. |
| 3. Aerosol can will not lock in up position | a. Bent trigger wire |

If difficulties persist, call or write for assistance.

LIMITED WARRANTY

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

Revel, in these instructions and all advertising and descriptive literature, has attempted in good faith to accurately convey the operation, capabilities, and limitations of its products to the purchaser. Judgement concerning suitability and safety for use of its products in any particular application rests solely with the purchaser.

Revel's liability, arising out of the supplying of such products, or their use, whether on warranties, due to negligence or otherwise, shall not in any case exceed the cost of correcting such defects, or replacing such defective product with the same, or similar, product of equal or greater value which is being manufactured at the time replacement is made.

This limited warranty shall not apply to any part of any product which shall have been abused or misused physically or electrically, or whose appearance has been modified. In no event shall Revel be liable for consequential damages nor for any amount in excess of the net price of the products found defective or not in conformance with applicable specifications.

With respect to products found to be defective or not in conformity with applicable specifications, the product will be repaired or replaced and shipped back at Revel's expense.

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