

MOSQUITOES:



Mosquitoes are blood sucking insects that are responsible for the transmission of many diseases. Within Australia there are more than 300 different species of mosquito. Several important human diseases are transmitted by these insects including Dengue fever, Australian encephalitis, Ross River virus disease and Barmah Forest virus disease. Mosquitoes also cause lifestyle problems, through their persistent biting spoiling recreational and social activities.

BITING MIDGES (SANDFLIES):



Biting midges or sandflies as they are called in Australia are small robust insects with piercing and sucking mouthparts. These small flies are renowned for their nuisance biting in coastal areas around lagoons, estuaries, mangrove swamps and tidal flats. The biting activity of adult is mainly limited to the periods of dawn and dusk; they will remain inactive through very windy weather, Female midges may attack humans in large numbers, biting on any areas of exposed skin, and often on the face, scalp and hands..

NON BITING FLIES:



Non-biting flies are often associated with domestic dwellings, especially throughout the warmer months when they bred prolifically, invading homes. Non-biting Australian flies contain many species that are responsible for contamination and spoilage of foodstuffs, annoyance, mechanical transmission of disease-causing pathogens, and invasion of living tissues (myiasis). Collectively known as "filth flies", they are distributed throughout the families of Calliphoridae (blow flies), Sarcophagidae (flesh flies) and Muscidae (house flies).

CODDLING MOTHS:



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Solar Bug Zapper

USER MANUAL



NEED WARRANTY OR SERVICE?

BEFORE RETURNING THIS PRODUCT TO RETAILER

FREE CALL OUR CUSTOMER SERVICE

DEPARTMENT ON 1 800 677 981



IMPORTANT SAFETY INSTRUCTIONS:

- Heed Warnings:** All warnings on the appliance and in the operating instructions should be adhered to.
- Do Not Modify:** Do not modify, paint or change the unit in any way.
- Young Children / Infirm Persons:** This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.
- Young Children:** This product is not a toy. Young children should be supervised to ensure they do not play with the appliance.
- Heat:** The appliance should be situated away from heat sources such as BBQ's, firepits, chimneys etc
- Cleaning:** The appliance should be cleaned only as recommended in these instructions
- Object Entry:** When power is on do not place any object through any of the openings or touch the electrically charged killing grid
- Solar Panel:** Do not press on the surface of solar panel located on the top of the unit as this can cause damage to solar module.
- Battery Replacement:** Replace battery indoors to ensure protection against ingress of rain. Replace with new NIMH 750mAh battery same voltage as old battery
- Cleaning:** Do not attempt to clean this product with solvents or abrasive cleaners as they may cause damage and malfunction. When cleaning is required use a soft damp cloth.
- Damage Requiring Service:** The appliance should be serviced by a qualified Service Technician when:
- I. Heavy objects have fallen on the appliance
 - II. It has been dropped or the body has been damaged
 - III. It does not appear to operate normally or exhibits a marked change in performance
- Service:** The user should not attempt to service the appliance beyond that described in these operating instructions. All other servicing should be referred to a qualified Service Technician

- WARRANTY:** Congratulations on purchasing the **STINGER®** Solar Insect Killer Model MTS-05 a quality appliance from The Kelly Company. Please read the following warranty information and complete the purchase date and retailer / supplier information as this will be needed when making a warranty claim.
- Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The product is warranted for 1 year from date of original purchase.
- The provision of this warranty shall not apply to any product which has been subject to abuse and misuse, neglect or accident. Nor does the warranty apply to any product that has within the warranty period been used for a purpose for which the product has not been designed or which has been repaired or altered in such a way so as to adversely affect its performance and reliability. Service by an unauthorized source may void the warranty.
- The Kelly Company Pty Ltd neither assumes nor authorizes any person to assume responsibility for damages due to accident, abuse, lack of responsible care, or the fixing of any unauthorized attachment or use of batteries other than specified on page 4 of this manual
- Purchase Record: Immediately complete the following Proof of Purchase information and retain your cash register and credit card receipt as proof of purchase as this will be required when claiming under this warranty.
- Date of Purchase:.....
- Retailer / Supplier Name & Address:.....
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1. Ensure that the STINGER® Solar Insect Killer Model MTS-05 is well packed to avoid transport damage as this is not covered under the Warranty.
 2. Also please include written details of the product failure, proof of purchase and your full name, address, telephone number and email address
 3. Contact our Service Department (details below) if the product is still under 12 month warranty. We will provide you with our replay paid postal address. If outside warranty you will need to cover freight costs. Find our postal address below.

Service Department The Kelly Company Pty Ltd
PO BOX 516 Blacktown NSW 2148 (returns)
2 Bonz Place Seven Hills Sydney NSW 2147 (head office)
Telephone: 02 8811 3716 (9.00 am and 5.00 pm EST) Email: sales@kellycompany.com.au

The user must not attempt to service the unit beyond what is described in this Manual. Other servicing should be referred to a qualified service person or returned to The Kelly Company Pty Ltd at the address shown on the back page of this Manual.

Trouble Shooting Magic Touch Solar Insect Killer

Problem	Possible Reason (s)	Correction
White & UV LED do not light	<div>1. 3-way switch is in OFF position</div> <div>2. The rechargeable battery is not charged</div> <div>3. Inner and outer killing grids are touching each other and continuously discharging stored power</div>	<div>1. Turn 3-way switch to ON or LIGHT ONLY position</div> <div>2. Place the unit so solar panel gets the maximum amount of full, direct sunlight. If weather is cloudy or overcast the battery will not fully recharge The device must receive direct sunlight every day to fully charge the battery. If not enough sunlight is received it will recharge in the next sunny day and resume normal operation.</div> <div>3. Switch the unit to OFF position separate killing grid with fine plastic handled screwdriver</div>
White & UV LED do not light but unit is fully charged	<div>1. Battery needs replacing</div> <div>2. Water or damp garden material is covering the sensor on the hood</div> <div>3. Other light sources are simulating daylight. If the unit is located too close to street, porch or other lights, the built-in sensor reacts to the other light source preventing unit from turning on.</div>	<div>1. Replace battery (follow the directions in other section)</div> <div>2. Remove any material or water from sensor and wipe with a dry soft cloth.</div> <div>3. Eliminate other light sources or relocate your Solar Insect Killer</div>
Unit is fully charged but killing grid is not operating	<div>1. The gap between the killing grid wire grids is too close or touching</div> <div>2. The killing grid is blocked.</div> <div>3. Water or damp garden material is covering sensor</div>	<div>1. Call our Service Department in Sydney on 02 8811 3716</div> <div>2. Refer to Killing Grid Cleaning</div> <div>3. Remove any material or water from sensor and wipe with a dry soft cloth.</div>

WELCOME: Thank you for purchasing the **STINGER®** Solar Insect Killer Model MTS-05. This manual will provide you with directions for the safe and efficient operation of this product. Please read this manual carefully and keep it for future use. Failure to operate the **STINGER®** Model MTS-05 Solar Insect Killer in accordance with these instructions may cause damage to the unit and void the warranty.

Solar System:

The Stinger Solar Insect Killer is an environmental friendly product which requires no wiring or mains power to operate. It is fully weatherproof and can be located anywhere in your garden where direct sunlight is available. During the day, the solar panel converts sunlight into electricity and charges the internal rechargeable battery storing energy to operate the unit. At night the photocell sensor on the hood automatically turns on the dual lighting system (white light and UV light) as well as the electrified killing grid. The number of hours the lighting and killing grid systems will remain active during the night depends on your geographical location, weather conditions and seasonal sunshine availability. Operating time will be longer in summer than in winter.

How it Works:

The Stinger Solar Insect Killer utilizes a UV (Ultraviolet) LED of a specified wave length, proven to be an effective lure for flying insects at night, to an electrified killing grid. This combination of attraction and disposal forms a practical, efficient, hygienic and automatic electronic insect extermination system.

UV & White Light LED:

The default operating mode of the Stinger Solar Insect Killer is for the UV and White LED Lights to operate together providing decorative lighting (white LED) and flying insect attraction (UV LED); however the internal 3-way switch allows the user to change the setting:

3- Way Switch: The internal 3-way switch has ON / OFF /LIGHT ONLY settings:
ON: turns on both the UV LED & white LED and killing grid to provide decorative lighting and insect attraction and disposal. All functions become automatically operative at dusk and turn off at dawn.
OFF: turns the device off and neither lighting system (white and UV LED) is operative nor is the electrified killing grid. This mode is used when changing the battery or cleaning the killing grid.

LIGHT ONLY: turns on white LED only to automatically provide light function at dusk and off at dawn. In this mode the killing grid does not operate. The Light Only mode is recommended in winter when the flying insect population is low and the number of hours of direct sunlight is less than in summer.

OPERATING CHARACTERISTICS: **Light Sources:** 1 x UV LED plus 1 x White LED.

Battery: Rechargeable Ni-MH 750 mAh ‘AA’ Battery. Rechargeable Ni-MH batteries typically have an operating life of approximately 12 months. When the battery life is coming to an end, the light emitted will become dimmer and last less time. When this happens replace the battery.

Killing Grid Voltage: 1500 V peak however the voltage may be reduced if the battery is not fully charged or upon repeated zapping at less than 3 second intervals.

Operating Time Light & Zap Functions - ON Mode: Night-time operation of approximately 6 hours after the device has been fully charged by direct sunshine (this time will vary depending upon the number of zaps / insect kills during the night

Operating Time White LED Light Function - LIGHT ONLY Mode: Approximately 8 hours after the device has been fully charged in the daytime by direct sunlight.

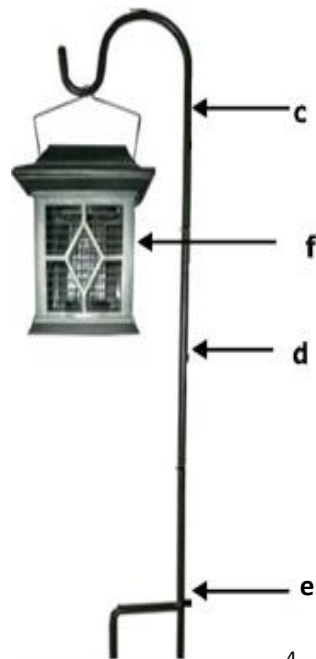
Photocell Sensor: Automatically turns the unit on at dusk and off at dawn.

Moisture Detection Sensor: Automatically detects rain or damp wet atmosphere and turns the unit off to preserve stored energy / power and to avoid a short circuit of the killing grid.

LOCATING & MOUNTING POLES ASSEMBLY

Select a location where the solar panel can receive direct sunlight for at least 8 hours a day. Shadowed locations will not allow the battery to charge fully and will reduce the hours of night-time working. Avoid locating the product near other light sources (i.e. porch or street lights), as these light sources interfere with the product’s built-on light sensor and either turn off the product or disrupt its operation.

1. Ensure that the function selector switch is in the “ON” position
2. Insert threaded end of Pole (c) into threaded pole (d) and tighten. Do not over-tighten.
3. Insert the spiked base (e) into other end of threaded pole (d) and tighten. Push the spiked base (e) into the ground in the desired location, ensuring that the complete stand is firm and stable.
4. Hang the Stinger Solar Insect Killer (f) onto the assembled Hanging Pole



IMPORTANT: READ BEFORE FIRST USE:
Please ensure the solar panel is exposed to direct sunlight for up to 8 hours before first use. Whilst there is a residual charge on the battery, the battery should be fully charged before using and allowing a full discharge.

ROUTINE MAINTENANCE: Cleaning of the Killing grid will extend product life and promote more efficient operation. First make sure the unit is turned OFF. Remove dead insects that may have lodged in the killing grid with a fine soft brush with a wood or plastic handle or blowing equipment. Be careful not to damage the grid.

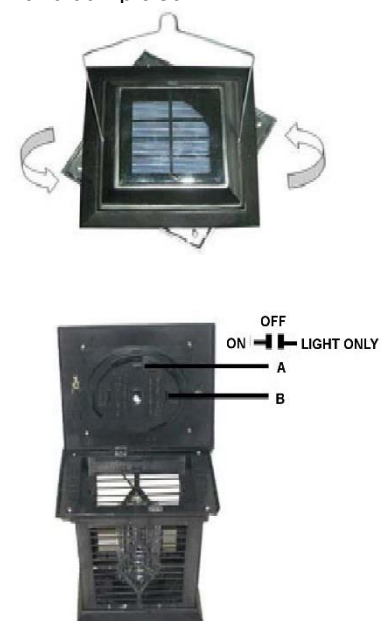
Removing Dead Insects: Dead insects may accumulate at the base of the unit. It is recommended that the Insect Killer be removed from the pole and tipped on its side to discharge any dead bugs accumulated on the base of the Insect Killer.

Cleaning Solar Panel: Periodically clean the solar panels with a damp cloth.

BATTERY REPLACEMENT & DISPOSAL:

The Ni-MH rechargeable battery has an estimated operating life of about 12 months. When the battery life is coming to an end, the light emitted from the LEDs will become dimmer and operated for less time of an evening. When this happens, change the battery as follows referring to the diagram below:

1. Touch the killing grid with an insulated handle screwdriver to make sure there is no charge remained on the grid.
2. Twist the hood (solar panel top) of the Bug Killer in an anticlockwise direction to remove from the cage.
3. Push the switch (a) to the OFF position.
4. Open the lid of battery compartment (b), remove the battery and replace with new item
5. Replace the cover turning it clockwise to fix it to the body of the Bug Killer.



WARNINGS:
Insert new batteries observing the proper polarity (+/-) as indicated inside of the battery compartment. Failure to properly align the battery polarity can cause personal injury and/or property damage. Remove spent or expired batteries from the product. Remove the batteries when the product will not be used for extended periods of time. Never throw batteries into a fire. Do not expose batteries to fire or other heat sources. Battery Disposal: Spent or expired batteries must be properly disposed of and recycled in compliance with all applicable laws and waste authority.