



PATRIOT PLUS



For Outdoor Use Only 1440-090

Operation Manual





Welcome

Congratulations on your purchase of Mosquito Magnet[®]. Now you can begin to enjoy your outdoor living space again.

Mosquito Magnet® is the #1 mosquito trap in North America. Backed by 18 years of research and independent testing, Mosquito Magnet® is scientifically proven to effectively reduce mosquitoes & other biting insects from your yard.

Mosquito Magnet®is easy to use. The link www.mosquitomagnet.com/videos, provides key information for getting started. In this manual, you'll learn everything you need to know about how it works, optimal trap placement, maintenance, storage and warranty information. The keys to success are trap placement, utilization of the correct attractant for your area and routine maintenance. For optimal catch rate, you'll need to change the propane tank and attractant every 21 days.

Our Customer Care line is available to answer all your questions regarding your new purchase. Please feel free to contact us...

Customer Care: 1-800-953-5737

Visit us online at www.mosquitomagnet.com for additional information regarding Mosquito Magnet® tips, testimonials, and additional product offerings.

Woodstream® Corporation

69 North Locust Street Lititz, PA 17543 1-800-953-5737 www.mosquitomagnet.com

The Mosquito Magnet® traps are covered by one or more of the following patents:
USA Nos. 5,813,166; 6,145,243; 6,286,249; 6,817,140; 6,840,005; 6,848,466; 6,892,492; 7,074,830; 7,243,458; 7,281,351; 7,293,387; 7,536,824; 7,614,180; 7,752,803; 7,987,631; 8,067,469; 8,051,601 and 8,141,291 Other patents pending

Made in China

FOR YOUR SAFETY

If you smell gas:

- 1. Shut off the gas to the appliance.
- 2. Extinguish any open flame.
- 3. Open lid.
- 4. If odor continues, immediately call your gas supplier or your fire department.

FOR YOUR SAFETY

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- 2. An LP cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.



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Questions or Comments

Please contact Woodstream[®] Corporation if you have any questions or experience any problems with your Mosquito Magnet[®]:

1-800-953-5737

Woodstream® Corporation 69 North Locust Street Lititz, PA 17543

www.mosquitomagnet.com

Model No.:	Patriot Plus
Serial No.:	
Type of Gas:	Propane
Manifold Pressure:	100 – 110 psi
Minimum Gas Supply Pressure:	11.0 in. WC
Input Rating:	650 Btu/Hr.
Minimum Clearances:	20 – 24"



How the Mosquito Magnet® Works

Mosquitoes and other biting insects use the long-range attractant carbon dioxide (CO₂) to locate people. Once in close proximity, mosquitoes use short-range attractants such as scents emitted from the skin, to determine which person they are going to bite. The Mosquito Magnet® mimics a human by converting propane to CO₂, with its patented catalytic conversion technology, in combination with a short-range attractant.

Attracted by the CO₂ and short-range attractant, mosquitoes and other biting insects are drawn to the Mosquito Magnet®. When they reach the trap, the insects are vacuumed into a bug bag by our patented Counterflow Technology $^{\mathsf{TM}}$, where they dehydrate and die within 24 hours.

The Mosquito Magnet® is silent, odorless and runs 24/7. When properly placed in your yard, the **trap begins** working immediately. Noticeable results can be achieved in 7 to 10 days. To greatly reduce your biting insect population, allow 4 weeks. Leave the Mosquito Magnet® out all summer long, to control the mosquito population in your yard.

Only biting insects are targeted including mosquitoes, no-see-ums, black flies and midges. Beneficial insects such as butterflies, bees or moths are not targeted.



Safety Instructions

Please read and follow all safety instructions and warnings.

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

Young children should be carefully supervised when they are in the area of the trap. Keep out of reach of children.

Clothing or other flammable materials should not be hung from the heater, or placed on or near the trap.

Note: Some or all of the following required safety instructions for propane powered devices may apply to your trap. Allow trap to cool for 5 minutes before re-starting.

Warning: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing the trap.

⚠ Caution: The gas pressure regulator provided with this appliance must be used. This regulator is set for an outlet pressure of 11.0 in. Water Column. The minimum inlet gas supply pressure is 11.0 in. Water Column from regulator.

- This unit is not intended to be installed in or on recreational vehicles and/or boats.
- The gas supply must be turned off at the LP-Gas supply cylinder when this appliance is not in use.
- The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223. 1-1998 for US and with the CAN1-B149 for Canada.
- To test for a gas leak, place soapy water around the connector, regulator, and gas hose assembly. If bubbles appear, there is a gas leak.
- Inspect the hose before each use of the unit. If it is evident there
 is excessive abrasion or wear, or the hose is cut, it must be
 replaced prior to the unit being put into operation. The
 replacement hose shall be that specified by the manufacturer.
- The trap is equipped with an internal spark ignition device. Failure to follow starting procedure will result in the trap not starting.
- Installation and repair should be done by a qualified service person (find service centers on www.mosquitomagnet.com).
 The trap should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative that the control compartment, burners, and circulating air passageways of the heater be kept clean.



Safety Instructions

- Maintain adequate clearances of 20"-24" around air openings into the combustion chamber, clearances from combustible material, provisions for accessibility and for combustion and ventilating air supply. Keep the trap area clear and free from combustible materials, gasoline, and other flammable vapors and liquids. The appliance is not to be used in locations where flammable vapor or explosive dust is likely to exist.
- Do not obstruct the flow of combustion and ventilation air.
- Keep the ventilating openings of the cylinder enclosure free and clear from debris.
- Clean the trap with water and a damp cloth if necessary.
- A maximum of a 20 lb. LP-Gas cylinder shall be used.
- The LP-Gas cylinder must be provided with a shut-off valve terminating in an LP-Gas supply cylinder valve outlet specified for Connection No. 510 in the Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections, ANSI/CGA-V-1-1977.
- The LP-Gas cylinder supply system must be arranged for vapor withdrawal and the cylinder must include a collar to protect the cylinder valve.
- The LP-Gas cylinder used shall be constructed and marked in accordance with the specifications for LP-Gas cylinders of the U.S. Department of Transportation (DOT) or The National Standard of Canada CAN/CSA-B339.
- The trap shall be used outdoors only in a well ventilated space and shall not be used in a building, garage, or any other enclosed area.
- The LP-Gas cylinder must be disconnected and removed from the appliance, if the appliance is stored indoors.
- LP-Gas cylinders must be stored outdoors in a wellventilated area out of reach of children.
- Disconnected cylinders must have threaded valve plugs tightly installed and must not be stored in a building, garage, or any other enclosed area.

- The pressure regulator and hose assembly supplied with this appliance must be used for connection to the LP-Gas cylinder. Replacement pressure regulators and hose assemblies must be specified by the manufacturer.
- Avoid improper use of extension cords. Keep connections away from moisture and avoid damage to the cord.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid hazard.

Please contact Customer Care if you have any questions at:

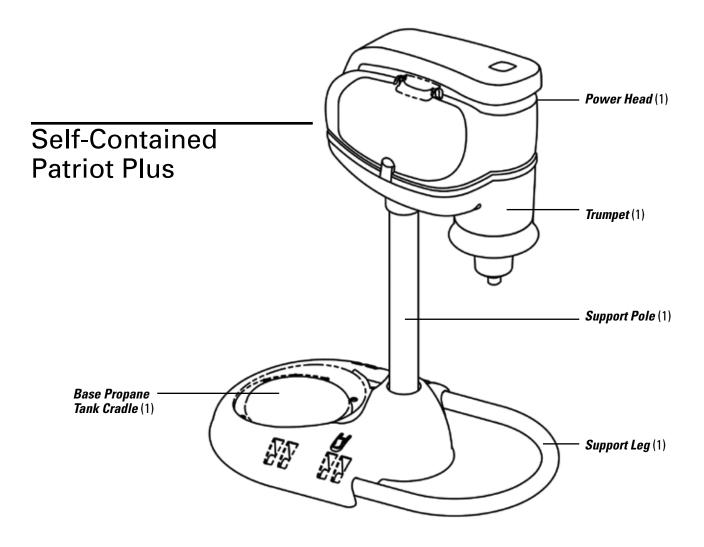
1-800-953-5737 or visit www.mosquitomagnet.com

Warning: SHOCK! An electric shock hazard may exist if water from a garden hose is directed at the Mosquito Magnet[®]. Route the power cord in the

safest possible manner to avoid personal injury.



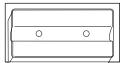
Principle Parts



Parts Included

Mosquito Magnet® Octenol Biting Insect Attractant

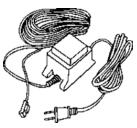
EPA Reg. No. 72563-1 (Short-Range Attractant)





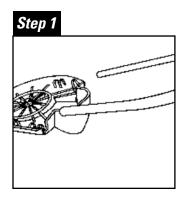




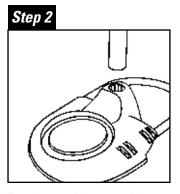




Assembly Instructions



Place base upside down on a flat surface, slide U-shaped support legs into slots on base until they lock in place.



Turn base and leg assembly right-side-up and place support pole into cavity on base.



Place trap power head onto pole. Press down firmly with two hands to secure.

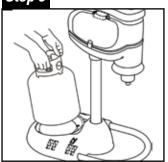


Completed assembly should have the front of power head in the same direction as base U-shaped legs.

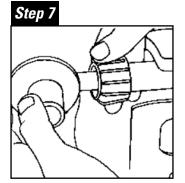


Insert attractant as directed in attractant packaging.

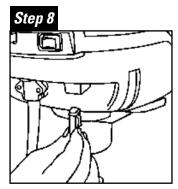




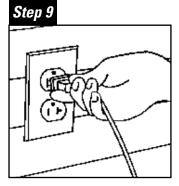
Place the base of the propane tank into the molded cradle supplied.



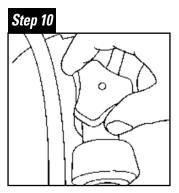
Making sure propane tank is fully closed, attach propane regulator hose to propane tank. Secure tightly by hand. Do not use tools.



Plug power connector into the trap power slot located on the back of the power head.



Plug Adapter into properly grounded electrical outlet.



Turn propane valve on slowly. See page 8 for propane tank installation.



MOSQUITO MAGNET

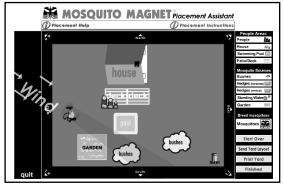
Trap Placement

- Determine the direction of the prevailing wind. Check local weather patterns if you are unsure.
- Stand in the center of the area you are trying to protect and look toward the prevailing wind.
- Proper placement of the trap will be 30 40 feet in front of you, within 5-6 feet of ground cover (i.e. bushes, flowerbeds, tree line, marsh bed). Ensure that trap is not directly against any blockades such as buildings, fences, etc.
- 4. It is recommended that the trap be placed in the shade.
- 5. Do not place trap directly above a water source (sprinklers, hose, etc.).
- Trap must be placed on level ground to avoid tipping or uneven propane distribution.
- For optimal trap placement in your yard, refer to the instructional video at www.mosquitomagnet.com/videos to build your own yard diagram for correct trap placement.

Burying the Power Cord

Make sure unit is unplugged and in proper position. Use the Cord Burying Clips supplied. Place clips approximately 3 feet apart, press into ground by hand making sure not to damage power cord. For alternate placement, follow steps illustrated below.

- 1. Use straightedge shovel or garden spade and dig a trench about 3"- 4" deep from power source to trap.
- Place cord into trench carefully stretching as you go to remove any twists in cord.
- Use cedar shingle or folded cardboard to place cord into bottom of trench. Recover the trench with removed soil.







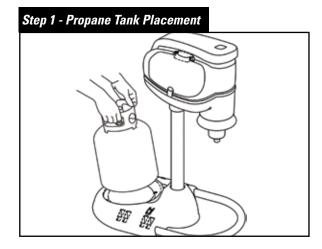


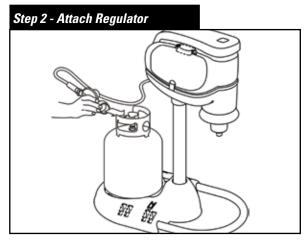


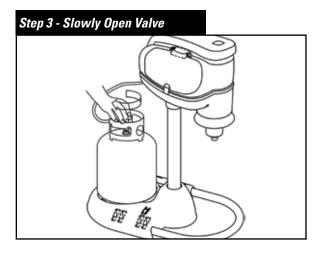
Propane Tank Installation

- After trap is placed in its ideal location, place propane tank onto the molded cradle.
- 2. Make sure propane tank is fully closed. Attach propane regulator hose to propane tank. Secure tightly by hand. *Do not use tools.*
- Turn propane on by slowly turning valve counter-clockwise.
 Take care not to turn too quickly to avoid engagement of safety valve.

TANK MUST BE DISCONNECTED FROM REGULATOR BEFORE TRAP IS RELOCATED TO AVOID DAMAGE TO REGULATOR AND/OR TRAP. BE ADVISED, DAMAGE CAUSED FROM FAILURE TO COMPLY WITH THIS INSTRUCTION IS NOT COVERED UNDER WARRANTY.









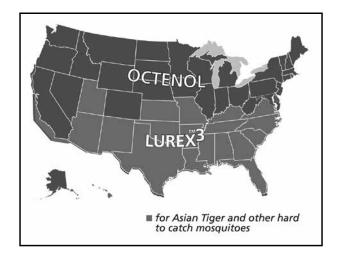
USING THE CORRECT ATTRACTANT OPTIMIZES THE CATCH RATE OF YOUR TRAP.

Mosquito Magnet® Octenol

 If you live in the northern half of the U.S., or along any coastal areas in the U.S., use a fresh Mosquito Magnet[®]
 Octenol cartridge every time you change the propane tank.

Lurex3™

- If you live in the southern half of the U.S., the Asian Tiger mosquito may be the predominant species in your area.
- Lurex3[™] is an attractant specially designed to capture hard to catch and aggressive, day-biting species such as the Asian Tiger mosquito.
- To find out if Lurex3[™] is right for you, go to www.mosquitomagnet.com/lurex.
- Use a fresh Lurex3[™] cartridge every time you change the propane tank.





Octenol Attractant Installation

- Locate Mosquito Magnet® Octenol Biting Insect Attractant. Remove mosquito attractant packet from bag. Carefully peel back foil cover
- Locate the Octenol carrier compartment inside the plume tube. Turn cap counter-clockwise about 1/8 turn. Remove end cap.
- 3. Place the open packet of mosquito attractant into the carrier compartment.
- Replace end cap on carrier compartment. Be sure to align cap's "feet" with grooves inside carrier compartment. Secure cap by turning clockwise until it clicks (about 1/8 turn).

Precautionary Statements

Hazards to Humans and Domestic Animals.

Caution: Harmful if swallowed. Avoid contact of skin, eyes or mouth with the evaporation holes. Wash hands before eating, drinking, chewing gum, using tobacco or using bathroom facilities.

First Aid

If swallowed

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If on skin or clothing

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If in eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If inhaled

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Environmental Hazards: Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

Directions for Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Replace cartridge every 21 days* (Note: After 21 days of use, cartridge appears the same; however, it will no longer be effective as the Octenol will have been released.)
*Based on release rate studies conducted at a constant ambient air temperature of 80° F for 21 days. Octenol release from this product will be more rapid at higher ambient air temperature.

Storage & Disposal

Do not contaminate water, food or feed by storage or disposal.

Storage: Store unopened attractant cartridge in a cool, dry place. Discard outer plastic bag in trash.

Disposal: Do not reuse attractant cartridge. Dispose of used attractant cartridge in the trash.











MOSQUITO MAGNET

Instructions

READ MANUAL BEFORE STARTING

Starting Instructions

It is recommended that you read the entire manual before starting the Mosquito Magnet® trap.

- Insert attractant in compartment per instructions in attractant packaging.
- 2. Connect regulator to propane tank (see page 8).
- 3. Plug power connector into the trap.
- Plug AC adapter into electrical socket. (To avoid the risk of electrical shock, connect only to properly grounded outlets.) Adapter unit is not intended to be mounted.
- 5. Slowly turn propane tank valve on.
- 6. Turn rocker switch to "on" position.
- 7. The red light on the switch will flash for up to 20 minutes (warm up phase).
- Once the light stops flashing and is solid, the Mosquito Magnet® is fully operational.

NOTE: Should you experience an interruption of power, be sure to restart trap.

Shut Down Instructions

To shut down the Mosquito Magnet® simply close the valve on the propane tank and switch to the "off" position.

When Not In Use

If the unit is not in use, the gas must be turned off at the supply cylinder. Storage of this unit indoors is permissible only if the cylinder is disconnected and removed. Cylinders must be stored outdoors, out of reach of children and must not be stored in a building, garage or any other enclosed area.

End of Season Storage

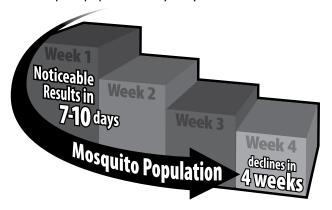
Push ON/OFF switch to OFF position to shut down the trap. The LED light will go out and the fan will continue running until trap is cool. Close the propane tank valve and disconnect regulator.

Any open Mosquito Magnet® attractant should be removed and discarded. See attractant label for disposal instructions. The bug bag should also be discarded prior to storing the trap.

STORAGE: The trap should be stored indoors in a garage or shed in the off-season. Cover trumpet to prohibit insects from nesting. Cover unit with a tarp and secure tightly at the bottom to keep out dust, spider webs and other debris.

For Best Results (unit must run for 24 hours/day)

 Your trap will begin capturing immediately with significant reduction in the mosquito population in 7-10 days. Allow 4 weeks to significantly reduce the mosquito population in your yard.



- Allow trap to cool for 5 minutes before re-start.
- Never spray insecticide in or around trap.
- Trap can be left running in the rain.
- If using lime or fertilizer compounds, be sure to shut down the trap first to prevent dust or fine mist from being drawn into trap and clogging bug bag.

Warning: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

Caution: The gas pressure regulator provided with this appliance must be used. This regulator is set for an outlet pressure 11.0 in. water column.

The gas supply must be turned off at the LP-Gas supply cylinder when this appliance is not in use.

Leader in 360º Customer Support

- Customer Care Hotline: 1-800-953-5737
- Online Product Registration Available
- Visit www.mosquitomagnet.com for Troubleshooting Tips/Trap Placement
- Certified Service Locations Information Available at www.mosquitomagnet.com



Maintenance

Maintenance

• 21 Day Maintenance Cycle

- Refill propane. (Propane lasts approximately 21 days with 24-hour/7-days operation.)
- Replace short-range attractant cartridge.
 See Mosquito Magnet® attractant label for instructions.
- Empty or replace bug bag.
- Periodically wipe down the outside of the trap with clean water and a damp cloth.

Propane Tank Changing Time

When attaching the regulator knob to a tank after a tank change, be sure to fully tighten the regulator knob onto the tank. No need to use tools, but do turn the knob as far as possible by hand. When this is done, loosen the knob 1/4 turn, then re-tighten to maximize seal.

The purpose for this is to fully engage the regulator onto the tank. If the regulator is not fully engaged, the flow of gas may be restricted to the point where the trap will show a gas empty code. If this occurs, press the off button, close the tank valve, and remove the regulator from the tank. Re-attach the regulator and try again.



Troubleshooting

Problem	Possible Cause	Solutions		
Your Mosquito Magnet® won't start	 Is the propane tank empty? If propane tank is new, it may have air blockage, has it been purged? If tank has been opened too quickly, security check valve may have triggered. Is the power cord plugged in? Is there a loose connection? The outdoor temperature is below 50°F (10°C). The tank regulator isn't fully engaged. Propane tank may be empty or need to be purged. Regulator is not fully engaged. 	 Weigh tank and check against "empty" weight written on tank. Bring tank to filling location. Air may be in fuel line. Ask for tank to be purged. Hint: If you have another propane powered device operating on a standard, 20 lb propane tank, try hooking that tank up to the trap to verify that the issue is with your tank. Disconnect the regulator from the tank and reconnect. Then open the regulator valve slowly. Verify all electrical connections. Make sure you are using the correct power requirements for your unit. Make sure regulator is fully engaged, and propane tank valve is fully open. Mosquitoes are not active at this climate; wait until the temperature is consistently above 50° F (10°C) before starting your trap. Make sure the regulator is fully engaged, and propane tank valve is fully open. Go through above steps 1, 2 and 3. See tank changing tips on page 12. Hand tighten the propane tank regulator until slightly snug. 		
Low or no catch	11. Insects may not be out yet.12. Trap improperly placed.13. Biting insects reproductive cycles have not yet been broken.	 11. Verify temperature is consistently above 50°F (10°C). 12. Follow steps in the "Trap Placement" section of your owner's manual or go to www.mosquitomagnet.com "Placement" section. 13. Keep trap in constant operation 24 hours/day, 7 days/week for 4 weeks to interrupt the breeding cycle. 		

Customer Care **Please have your serial number, date of purchase & model type available**

All of us at Woodstream® Corporation want you to get complete satisfaction from your trap. Should you have any problems you cannot resolve, simply call one of our trained Customer Service Representatives at **1-800-953-5737 or visit www.mosquitomagnet.com.**We will help you get up and running.



Limited Warranty

Limited Warranty

This warranty, (1) year from the purchase of the unit, is extended only to the original purchaser/user of products. This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States.

Woodstream® Corporation warrants its products to be free from defects in materials and workmanship for the warranty period by the original purchaser/user.

For warranty service, please contact our Customer Care (800) 953-5737. Please indicate the nature of the defect. Warranty service can only be performed by a Mosquito Magnet® Certified Service Center.

If Woodstream® Corporation determines there may be a defect, Woodstream® Corporation will issue a Return Goods Authorization (RGA) number. The defective unit or parts must be returned for warranty inspection using the RGA number, when applicable, as identification within (30) days of return authorization date. DO NOT return products to our factory without our prior consent, as they, as well as C.O.D. shipments will be refused. Woodstream® Corporation or agent, at its option, shall replace the unit, replace the defective part(s) and return such unit to you. Woodstream® Corporation's sole obligation and your exclusive remedy under this warranty shall be limited to such replacement.

Limitations and Exclusions:

The warranty shall not apply to problems arising from normal wear, or failure to adhere to the enclosed instructions. In addition, the foregoing warranty shall not apply to serial numbered products if the serial number has been removed or defaced; products subject to negligence, accident, improper operation, maintenance or storage; products damaged by circumstances beyond Woodstream® Corporation's control; or products modified (including, but not limited to modifications through the use of unauthorized parts or attachments) or repaired by anyone other than Woodstream® Corporation or its designee.

The foregoing warranty is exclusive and in lieu of all other warranties, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose. It shall not extend beyond the duration of the express warranty provided herein, and the remedy for violations of any warranty shall be limited to repair or replacement of the defective product pursuant to the terms contained herein. Woodstream® Corporation shall not be liable for any consequential or incidental damages whatsoever.

This warranty gives you specific legal rights and you may also have other legal rights which may vary based on location.



Product Registration

Register on-line at www.mosquitomagnet.com or mail completed form today.

First Name	Last Name				
Address					
City		State/Province	Zip Code	Country	
Phone Number	Email Address	S		Yes, I would like to receive product updates via email.	
1. Where did you buy thi	_				
Website	Store Name _		Service Center		
2. How did you find out a	about the Mosquito Magnet®? (check a	ll that apply)			
Radio Ad	☐ Direct Mail ☐ TV Ad	☐ Friend/Family	Website	Magazine Ad	
Newspaper Ad	News Article (newspaper, magazine	e, TV, etc.)	☐ In-Store Display	Other	
3. In your household who	o decided to purchase the Mosquito Ma	agnet®?			
Male	Female Both				
4. What is your marital s	tat <u>us</u> ?				
Married	Single NECESSARY INFORMATION				
5. Are there any children	with Woodstre			perly register your product am® Corporation, nformation is required.	
_	t important reasons influencing this pu	urchase?	Model: Circle One	·	
_	Protection from mosquitoes that may transmit disease Comfort		Patriot Plus Independence Executive		
	logy behind product	Received as gift	· ·		
_	lation of friend/family member Other Serial#:				
	on of salesperson		Date of purchase:		
7. What is your age?	☐ 36 - 45 ☐ 46 - 55	☐ 56 − 65 ☐ 66+			
8. What is your level of a		Graduate Degree Doct	oral Degree	cal/Professional	
<i>9. What is your annual h</i>		\$60,000 - 89,999	Over \$90,000		
_	f insect abatement have you tried?	Пои			
Zappers	Sprays Pesticides	Other CO ₂ Traps, Name:			
11. Would you consider g	giving a testimonial once you are thoro No	ughly convinced of the effective	ness of the Mosquito Mag	net®?	
12. Were the assembly d	lirections and operation instructions ex	rplained clearly and simply?			
13. Did you require custo	omer care?				
Yes	□No	Please visit www.mosquitomagnet.com to find a local Certified Service Location.			

Consumer Confidentiality: All of the information that has been gathered on this reply card is solely for the internal sales and marketing efforts of Woodstream® Corporation. None of the information that you may have provided will be sold, rented or leased to any other company, organization or agency for any purpose whatsoever. None of this information will be posted on our company website or any other vehicle that can be obtained by the public domain. If you wish to make additional comments or testimonials about our product,

please address them separately and send them to our Marketing Department at the address listed inside the manual.

