

SKEET-R -GONE™



SPRINKLE 'EM TO DEATH!

***Installation and Operation
Instructions***

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Congratulations on your purchase of this unique and exciting device. The Skeet-R-Gone system is designed to provide you years of use for mosquito control.

In the following pages we will explain the set-up and operation of this system. Many different and unique types of lawn sprinkler systems are in use nationwide and we will do our best to explain how you can benefit and safely use the Skeet-R-Gone with your system.

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Section #1 - System Overview and Requirements

1. YOU MUST HAVE a fully functional "Backflow Preventer" that meets all applicable codes in your area installed on your irrigation system to prevent against any contaminants or concentrates entering your drinking water supply.

Answer: If you are not sure about governing codes, not sure if you have a backflow preventer, or not sure that it is functioning correctly, we suggest checking with your city inspections office and/or a residential sprinkler system installation and service agency to verify its functionality.

2. This system is designed to inject ecologically friendly concentrates directly into a sprinkler system; under no circumstances should toxic products be dispensed by this machine.

Answer: There are many biologically, ecologically, non-toxic and non-hazardous products available on the market (see disclaimer) and the use of these in accordance with their instructions required and mandatory.

3. This is an electrically powered system and users could be subject to electrical shock.

Answer: Although the system is considered "Low Voltage" (24 vac) there is ample current to inflict shock or death. Always use caution when handling components. Use the product with an operational "Ground Fault Interrupted Circuit" and unplug the device when not in use or during installation or servicing.

4. The Skeet-R-Gone unit is for use with underground "Pop-Up" type sprinkler systems.

Answer: Never use or connect the system to a garden hose or watering system that may be also used to deliver drinking water. If you do not have an underground "Pop-Up" type sprinkler system with an adequate backflow preventer, return the unit to the origin of its purchase in un-used/un-installed condition to request a refund.

5. The Skeet-R-Gone system requires water pressures between 30 and 100 psi. to operate.

Answer: Adequate concentration dispersion depends on adequate water pressure. Each end user should know the size of each zone (in square feet), and the flow rate for each zone (in gallons per minute "section 6"), to determine the amount of concentrate each zone requires. Always follow concentrate coverage directions, per manufacturers instructions.

6. Read and understand the installation and operation instructions completely.

Answer: The Skeet-R-Gone system is a powerful and effective tool. End users and others who are benefiting by or are affected by its use, need to be aware of, and in full understanding of the system to utilize /operate it safely and effectively. If you have any doubt as to your ability to install this system, contact a local sprinkler service professional or visit our websites professional installer/dealers location map.

7. To realize the best results with the longest residual effect from your Skeet-R-Gone unit, you should perform your concentrate application after your normal watering cycle has finished, after a significant rain event has occurred, when the yard is completely dry or per other manufacturers instructions. In most cases, you don't want to wash away the concentrate you just applied, it will be most effective when left on the yards surface.

Section 2: Installation and Warranty

Thank you for purchasing Skeet-R-Gone. Whether you are a home owner or a professional installer, the following steps are meant to assist you in a trouble free, safe installation of the Skeet-R-Gone application system.

1. Please verify that all parts were received by matching them with the diagram in section 4. If you are missing any parts, please call Skeet-R-Gone at 866-599-7410. Hours: 9am-5pm (central time) Monday through Friday.
2. Install the large gray application box and pump within 6 feet of the injection point (Section 8: page 2 Fig-A1) on the side of your home or on a post near the location where you intend to inject the liquid concentrate into the water inlet supply of your sprinkler zones.
3. The Skeet-R-Gone injection site on your sprinkler system main line should be located directly downstream of your backflow preventer. (Section 8: page 2 Fig-A2) A functional backflow preventer is generally a mandatory part of your irrigation system.
The next step is critical for safety reasons:
Do not just assume you have a functional working backflow preventer, verify that it is functional and working properly prior to proceeding to step #4. If you can not verify this, install a new backflow preventer between the water source and the Skeet-R-Gone injection point. For safety, you may assume that two backflow preventers are better than none.
4. Install the Skeet-R-Gone control box on the wall next to your sprinkler control panel (Sec 8: page 2 Fig-A3). Run the wire out to the location of the application/pump box (transformer and 8 pin plug end stay by the Skeet-R-Gone controller). **Do not plug in the AC power** (white transformer) or connect cord to the Skeet-R-Gone control box until final completion of all the installation steps.
5. **TURN OFF WATER SUPPLY AT (or prior to) THE BACKFLOW PREVENTER** and install the saddle valve on your main feed line after the backflow preventer. You may be required to dig into your yard to locate the main flow line. If you must bury the injection/mixing nozzle assembly, it is recommended to use a 10 inch transfer box with cover (underground) to protect the injection device and allow you to mow your lawn without affecting the new system. If the size of your feed line is not standard, (saddle clamp provided for use with 1 inch polypropylene pipe only) a larger or smaller saddle clamp will need to be purchased at your local hardware or plumbing supply store.
6. Assemble the brass fittings and tighten securely (Section 8: page 1) using the provided Teflon tape (wind tape clockwise on fittings). Attach this assembly to the top of the saddle clamp and tighten securely (use caution not to over-tighten between brass and plastic fittings).
6A. If you have an above ground "stand pipe" (Sec 8: page 2 Fig-A2) attach the saddle clamp on the pipe after the backflow preventer and attach the injection/mixing assembly to this saddle clamp.
7. Inside the Skeet-R-Gone gray application box, locate the two "long" clear plastic lines (note the one coming from the pump), run both lines out to the "injection site" (Sec 8: page 2 Fig-A2), and cut to proper length (leave ample slack in these lines). Attach the pressure sensor line, (the one on "top" per assembly diagram Section 8: page 1).
8. Insert the multi stranded power and sensor cord into the bottom of the gray box (one of the 2 holes is large enough to accommodate wire and tubing), cut to proper length and split out/strip (1/3rd inch) the wires. Secure this cord (to keep it from falling out) with one black plastic clamp (provided). Attach wires to pump and sensor using color code diagram (Section 9) with wire nuts (provided) and cap the remaining two wires (individually)- very important.
9. Insert measuring bottle full of water into the right side of the gray box and insert siphon line (Section 8: page 2 fig. A4) into container of water.
10. Re-verify and inspect the connections inside the application box. Return to the Skeet-R-Gone controller and plug in the 8 pin connector into the bottom of the Skeet-R-Gone controller (Sec 8: page 2 Fig-A3).
11. Plug in the white transformer to a "Ground Fault Interrupted" outlet, (usually located near where your zone controller is plugged in).
12. Verify that you have the draw tube/filter foot (step 9) submerged into a water container, and depress the prime button, (use a small pen tip to activate the switch on the Skeet-R Gone controller face) for 30 seconds (digital timer will activate and count up as you depress the button). This should "Prime" your system. *Note* you need to have the air worked out of the fluid delivery system before you connect the concentrate hose (step 7) to the check/orifice side of the mixing assembly. Run clean water thru this pump until you are confident the system is primed. Delivery tube should be clear of any visible air bubbles and in most cases, you should only have to prime the system once per season or in cases of prolonged inactivity.

13. After verifying that the delivery tube is primed, connect that tube to the check/orifice barb and secure that line with one black plastic clamp (provided). *Note* The pressure sensor tube will have water bubbles in it from time to time and is not any cause for alarm (it is normal operation).
14. Turn on the water valves and check the saddle and injection sites for leaks. Tighten or adjust as needed.
15. On your sprinkler controller, select and manually activate the closest zone to the gray application box. After a few moments, a green light on the Skeet-R-Gone control panel will illuminate. Your system is now pressurized. The Skeet-R-Gone safety feature will not allow the injection process to work without full system pressure prior to application (this light may stay on continuously).
16. You are now ready to move on to the operating instructions.

Warranty

At Skeet-R-Gone Inc., we make every effort to assure that our products meet the highest quality and durability standards, and warrant to the original purchaser for a period of one year from date of purchase that the product is free from defects in materials and workmanship. This warranty does not apply to damage due directly or indirectly from regular use, misuse, abuse, negligence or accidents, repairs or alterations outside our facility. We shall in no event be liable for death, injuries to persons or properties, or for incidental, special or consequential damages arising from the use of our product. Some states may not allow the exclusion or limitation of incidental or consequential damages, so some above limitations may not apply to you.

To return product, follow instructions at www.skeetrgone.com. Further, the original purchaser must attach a copy of receipt or other form of proof of purchase. Upon inspection and chemical residual testing, we will either repair or replace the product at our discretion, or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement at our expense. But, if we determine there is no defect or that the defect resulted from causes not within the scope of our warranty, then you, the "returnee," will bear the cost of shipping the non-replaced return to the shipping address as stated on the original invoice.

This warranty gives you specific legal rights and there may also be additional or different rights that vary from state to state.

Important:

Do Not Return without first acquiring a Return Merchandise Authorization number. These can be obtained Mon.- Fri. 9-5 central time by calling 866-599-7410.

Section 3: Using Your System Safely and Effectively

Normal Operating Procedures

Always Wear Protective Gloves and Eye Protection when Handling Concentrates

1. Open gray application box.
2. Note the level of ounces in provided measuring bottle (use water until step #5).
3. Manually activate a sprinkler zone on your sprinkler controller and verify that it is operating correctly.
4. On the Skeet-R-Gone controller, push the red "Activate" button for 10 seconds and then go out and check the measurement bottle to determine how much water you have dispensed in that 10 seconds, (usage amount will vary per individual water pressure and zone). This determines your application rate (Example: 10 seconds dispenses 1 oz liquid, or 1/10th of an ounce "per second" in that zone). Record the seconds of application rates for each individual zone on chart provided (Section 5)
Application times for future use should remain fairly constant, but we suggest you check this rate occasionally and adjust as needed.
5. Remove measuring/water bottle and insert container of biologically, ecologically-friendly concentrate into application box. Insert draw tube with filter foot attached. Follow all directions for application rates, coverage areas, etc. provided by the biologically, ecologically-friendly concentrate manufacturer. Confirm that the system is primed (look for consistent fluid, no "bubbles" in delivery tube).
6. You are now ready for operation.
7. Select a zone on your sprinkler controller, manually activate it and verify that it is functioning properly.
8. Verify that humans, pets or other items not intended to be treated, are clear from the zone.
9. Following the dispensing rate you pre-determined in (step 4) and the rate of suggested application from the concentrate manufacturer, press the red activation button on the Skeet-R-Gone controller and count off the pre-determined number of seconds for desired amount of concentrate to be dispensed (release button after pre-determined number of seconds has been reached).
Most sprinkler systems & application directions should calculate between 3-8 seconds of activation per zone.
10. After you have dispensed the concentrate with the activation button, it is very important to let the sprinkler line clear. For example, the water passing by the mixing chamber will require approximately 30 seconds of time to "mix" and another 30 to 60 seconds of time to clear and distribute. Watch a second hand on a clock/wristwatch and do not skimp on line clearing times. In short, let each zone run for 60-90 seconds after activation before moving on to the next zone.
Note: very long runs of sprinkler line will require more time to distribute and clear.
11. Repeat the above process for each zone you desire treat.
 - 11 A. After activating the last zone, you may want to clear the line for a longer period of time, to insure that all concentrate has vacated the system, perhaps one additional minute.
12. Upon completion, return to the application box and remove the biologically, ecologically-friendly concentrate and replace it with the water filled beaker (provided). This step is very important- it maintains the system's prime between applications.
13. You should always lock the exterior Skeet-R-Gone enclosure between uses (lock not provided). Store concentrate in a safe, secure area, inaccessible by children and pets, as per manufacturer's instructions.
14. To realize the best results with the longest residual effect from your Skeet-R-Gone unit, you should apply concentrate after your normal watering cycle has finished, after a significant rain event has occurred, when the yard is completely dry or per other manufacturer's instructions. It is not recommended that you water the yard immediately after an application, as this may dilute or completely wash away the concentrate.

Special Notes and Precautions

Do not use Round Up or anything that contains 2-4-D (broad leaf weed control) in the Skeet-R-Gone system. These chemicals will kill any growth they touch and wind drift cannot be controlled (flowers, neighbors plants, etc.).

Each season, or between long periods of non-use, set-up and priming should be completed and system checked per the initial procedures.

Fall blow out in cold climate areas should be completed as normal and the Skeet-R-Gone system should be filled with ecologically safe anti freeze, all the way from the filter foot thru the injection site or completely drained (pump ran dry for 5 minutes).

**Thank you for purchasing Skeet-R-Gone
and we wish you mosquito-free seasons for many years to come!**

Section 4: Skeet-R-Gone Component Check List



Component Check List

(please verify that you have received all of these components before attempting installation)

<i>Description</i>	<i>Description</i>
1- Mixing Chamber	1- Pump Box with Hose Assembly
1- Pressure Switch Hose Fitting	1- Installation Manual
1- Wire Assembly	1- Quick Reference and Zone Chart
1- Inlet Orifice and Check Valve	4- Hose Ties
1- Transformer (connected to wire Assembly)	4- Box Mounting Screws
1- Roll Teflon Tape	2- Controller Mounting Screws
1- Adapter Fitting	3- Quick Clamps
1- Controller	6- Wire Nuts
1- Saddle Valve	1- Measuring, Storage and Prime Bottle
5 -Lawn Flags (not shown)	

Section 5: Skeet-R-Gone Zone Dispensing Guide

READ INSTRUCTION MANUAL PRIOR TO OPERATION

Quick Tips

Calibrate Each Zone in Seconds Per oz/ml and Record Below

	Seconds = oz / ml	Mix and Clear Time	Concentrate
Zone 1	() Seconds = ()		
Zone 2	() Seconds = ()		
Zone 3	() Seconds = ()		
Zone 4	() Seconds = ()		
Zone 5	() Seconds = ()		
Zone 6	() Seconds = ()		
Zone 7	() Seconds = ()		
Zone 8	() Seconds = ()		
Zone 9	() Seconds = ()		
Zone 10	() Seconds = ()		
Zone 11	() Seconds = ()		
Zone 12	() Seconds = ()		
Zone 13	() Seconds = ()		
Zone 14	() Seconds = ()		
Zone 15	() Seconds = ()		
Zone 16	() Seconds = ()		
Zone 17	() Seconds = ()		
Zone 18	() Seconds = ()		
Zone 19	() Seconds = ()		
Zone 20	() Seconds = ()		

Follow Skeet-R-Gone dispensing instructions and concentrate label instructions to avoid injury

Unit cannot be activated until line pressure is above 20 psi. (most systems show continuous pressure)

Unit is only intended for use with ecologically, biologically safe products as stated in instruction manual

This product uses AC electrical components and caution needs to be taken to prevent electrical shock

Ensure that concentrate is free of particles that may clog orifice and hinder operation

Verify that zone is operating correctly and clear of people and animals prior to and during application

Never dispense flammable liquids, Round-Up or 2-4-D

Always winterize system prior to freezing temperatures

1. **Verify that system is primed** (visible fluid from filter foot to injection nozzle)
2. **Remove storage bottle and insert concentrate container** (agitate/ follow instructions)
3. **Verify system line pressure** (controller indicator)
4. **Manually activate desired zone (check zone for any issues)**
5. **Activate controller for desired seconds** (pre-determined for each zone)
6. **Allow zone to mix and clear** (60-90 seconds)
7. **Repeat steps 4 - 6 for coverage of remaining zones**
8. **Remove concentrate container and replace with beaker of water**
9. **Lock exterior enclosure and un-plug Skeet-R-Gone transformer**

(Re-printing is authorized)

Section 6: Conversion Charts and Web Links

milliliter to Teaspoon

0.01 milliliter = 0.002 028 841 Teaspoon [US]
0.02 milliliter = 0.004 057 683 Teaspoon [US]
0.03 milliliter = 0.006 086 524 Teaspoon [US]
0.03 milliliter = 0.006 086 524 Teaspoon [US]
0.05 milliliter = 0.010 144 207 Teaspoon [US]
0.06 milliliter = 0.012 173 048 Teaspoon [US]
0.07 milliliter = 0.014 201 889 Teaspoon [US]
0.08 milliliter = 0.016 230 731 Teaspoon [US]
0.09 milliliter = 0.018 259 572 Teaspoon [US]
0.1 milliliter = 0.020 288 414 Teaspoon [US]
1 milliliter = 0.202 884 135 Teaspoon [US]
2 milliliter = 0.405 768 271 Teaspoon [US]
3 milliliter = 0.608 652 406 Teaspoon [US]
4 milliliter = 0.811 536 541 Teaspoon [US]
5 milliliter = 1.014 420 677 Teaspoon [US]
6 milliliter = 1.217 304 812 Teaspoon [US]
7 milliliter = 1.420 188 947 Teaspoon [US]
8 milliliter = 1.623 073 083 Teaspoon [US]
9 milliliter = 1.825 957 218 Teaspoon [US]
10 milliliter = 2.028 841 354 Teaspoon [US]

milliliter to Tablespoon

0.01 milliliter = 0.000 676 28 Tablespoon [US]
0.02 milliliter = 0.001 352 561 Tablespoon [US]
0.03 milliliter = 0.002 028 841 Tablespoon [US]
0.04 milliliter = 0.002 705 122 Tablespoon [US]
0.05 milliliter = 0.003 381 402 Tablespoon [US]
0.06 milliliter = 0.004 057 683 Tablespoon [US]
0.07 milliliter = 0.004 733 963 Tablespoon [US]
0.08 milliliter = 0.005 410 244 Tablespoon [US]
0.09 milliliter = 0.006 086 524 Tablespoon [US]
0.1 milliliter = 0.006 762 805 Tablespoon [US]
1 milliliter = 0.067 628 045 Tablespoon [US]
2 milliliter = 0.135 256 09 Tablespoon [US]
3 milliliter = 0.202 884 135 Tablespoon [US]
4 milliliter = 0.270 512 18 Tablespoon [US]
5 milliliter = 0.338 140 226 Tablespoon [US]
6 milliliter = 0.405 768 271 Tablespoon [US]
7 milliliter = 0.473 396 316 Tablespoon [US]
8 milliliter = 0.541 024 361 Tablespoon [US]
9 milliliter = 0.608 652 406 Tablespoon [US]
10 milliliter = 0.676 280 451 Tablespoon [US]

Note For very in-depth conversions of fluids and flow information visit www.onlineconversion.com

Remember- never use anything but liquid concentrate in Skeet-R-Gone
Skeet-R-Gone will not dispense particulate or clumpy solutions

Ounce to Teaspoon

1 ounce [US, liquid] = 6 Teaspoon [US]
2 ounce [US, liquid] = 12 Teaspoon [US]
3 ounce [US, liquid] = 18 Teaspoon [US]
4 ounce [US, liquid] = 24 Teaspoon [US]
5 ounce [US, liquid] = 30 Teaspoon [US]
6 ounce [US, liquid] = 36 Teaspoon [US]
7 ounce [US, liquid] = 42 Teaspoon [US]
8 ounce [US, liquid] = 48 Teaspoon [US]
9 ounce [US, liquid] = 54 Teaspoon [US]
10 ounce [US, liquid] = 60 Teaspoon [US]

Ounce to Tablespoon

1 ounce [US, liquid] = 2 Tablespoon [US]
2 ounce [US, liquid] = 4 Tablespoon [US]
3 ounce [US, liquid] = 6 Tablespoon [US]
4 ounce [US, liquid] = 8 Tablespoon [US]
5 ounce [US, liquid] = 10 Tablespoon [US]
6 ounce [US, liquid] = 12 Tablespoon [US]
7 ounce [US, liquid] = 14 Tablespoon [US]
8 ounce [US, liquid] = 16 Tablespoon [US]
9 ounce [US, liquid] = 18 Tablespoon [US]
10 ounce [US, liquid] = 20 Tablespoon [US]

Determining Flow Rate

(Formula) $60 \div \text{Seconds} \times \text{Gallons}$

For example, measure the water from an available tap or the output side of your backflow preventer
i.e.: A 4-gallon bucket that fills in 30 seconds means the available flow is 8 GPM
 $60 \div 30 \times 4 = 8 \text{ GPM}$

Determining pressure and amount of flow per zone can be challenging but sprinkler system component manufacturers and local sprinkler system professionals should be able to help you if you're having trouble determining these rates. Your local water municipality may also be able to tell you what pressure your neighborhood has.

Section 7: Disclaimer

Skeet-R-Gone Inc. is the manufacturer of an electrically powered device to be used for pest control. The product is only intended for use with liquid concentrates that are proven to be ecologically friendly, biologically friendly, non-toxic and non-hazardous to humans, animals, fish and the environment.

Skeet-R-Gone Inc. does not warranty the safety or the effectiveness of any products used through the device. We will not tolerate, condone or be held liable for misuse, abuse or unintentional application of products deemed harmful or hazardous.

Any warranty or guarantee of safety, merchantability or fitness for any particular concentrate lies solely with the manufacturer. Some products may require special licensing training or registration of the user with that user's state, county, city, or province.

licensing restriction, product registration, etc. Responsibility lies with the end user to know and uphold any restrictions. It is also the responsibility of the end user to verify that any products used are licensed for distribution in their state, county, city or province. It is understood that it is the sole responsibility of the purchaser and/or the end user to provide a license, permit, registration etc. if requested by that purchaser's local or state authorities.

For any manufacturers' warranty services, it is understood by the purchaser/end user that the product must not be used with any products that are not ecologically or biologically-friendly.

Skeet-R-Gone Inc. is under the assumption that its customers are of sound mind and can read and interpret English (as most concentrate labels are written in English). The customer, without question, assumes all responsibility for purchase of, and safe, proper and legal use of, the device and any other related products they purchase.

Skeet-R-Gone Inc. is governed by the laws of the State of North Dakota. Any legal issues or proceedings will be held in the State of North Dakota.

This disclaimer is a legally binding contract between Skeet-R-Gone Inc. and the customer. This disclaimer may be changed at any time without notice.

Detach and submit for warranty

Detach and submit for warranty

Warranty Submission Form

Warranty claims must be made in accordance with the warranty periods and rules of use.

To uphold your warranty, you **must first obtain a Return Merchandise Authorization (RMA) Number** by calling 866-599-7410. Also be sure to include your **receipt of purchase**.

Place in Envelope and Mail to:

**Skeet-R-Gone Return
C/O Tglobal
622 10th St. NE
East Grand Forks, MN 56721**

Customer Name (please print) _____ Date Of Purchase ____/____/____

RMA # _____

Street Address _____

City: _____

State, Zip _____

I understand that Skeet-R-Gone Inc. cannot accept returns on any merchandise that has been exposed to toxic materials or any product deemed unfit or hazardous to the environment or humans in any form. I therefore swear the returned product has not exposed to any such materials.

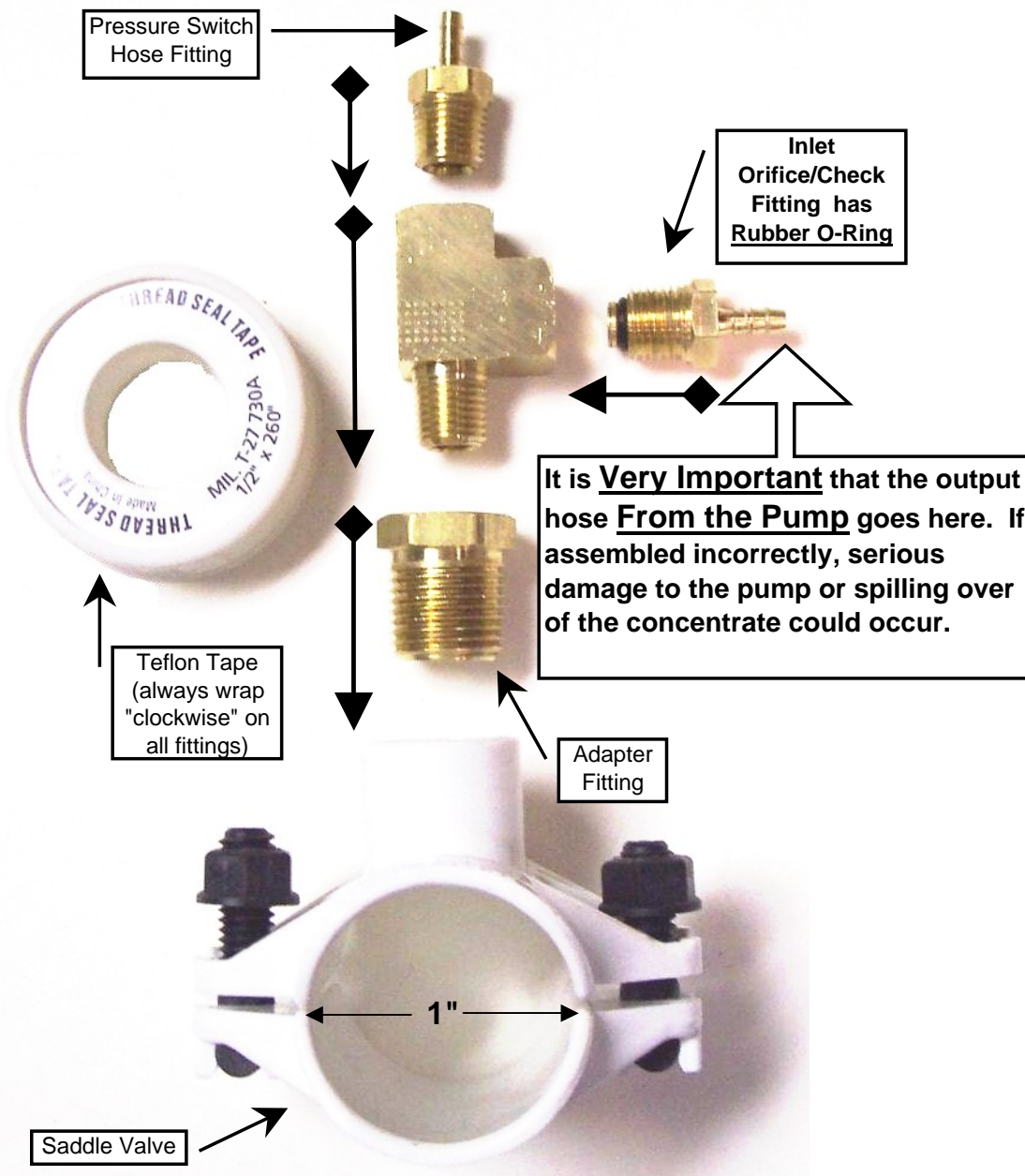
Customer Phone Number () - _____ - _____

Signature _____

For more about warranty and other useful information, please visit our website at: www.skeetrgone.com

Section 8: Mixing Chamber Assembly Supplement

This is the pattern by which the Mixing Assembly should be constructed



If you are unsure of, or uncomfortable with this illustration and assembly, you should consult an experienced sprinkler system installer. See our dealer locator at www.skeetrgone.com for a listing of dealers/installers in your area.

Section 8: Mixing Chamber Assembly Supplement

Fig.A1

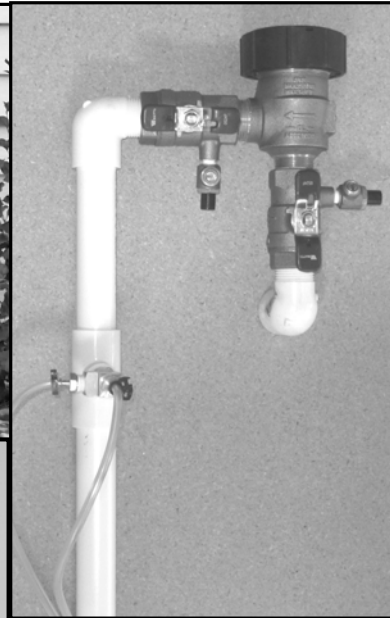


Fig.A2

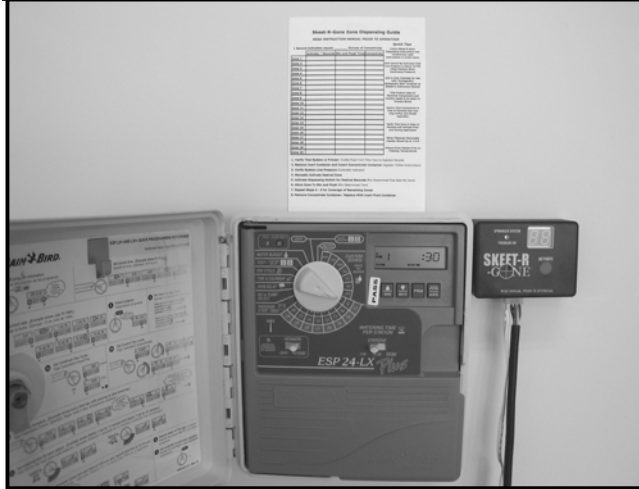


Fig.A3

Fig.A1 Enclosure placement

Fig.A2 Injection site placement

Fig.A3 Controller placement

Fig.A4 Inside of exterior box



Fig.A4

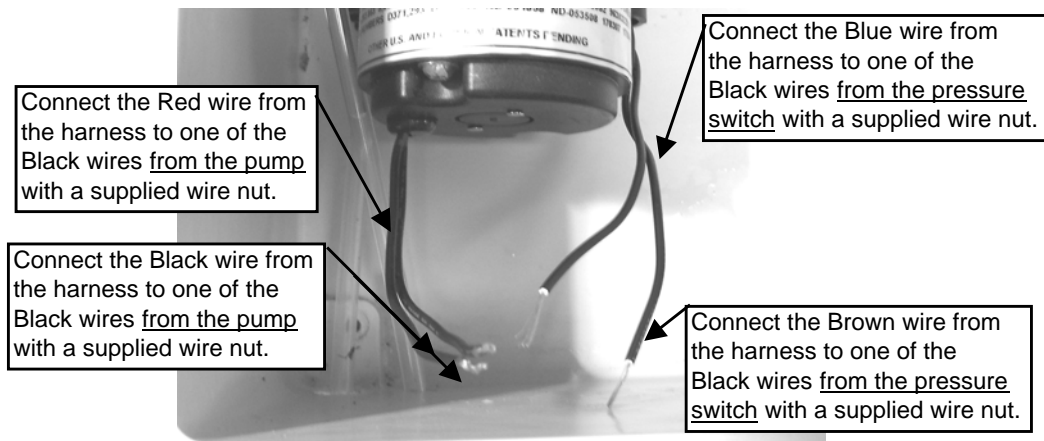
Section 9: Wiring Schematic

Pressure Switch wires from harness are Blue and Brown

Pump wires from harness are Red and Black

Important:

Yellow and Orange wires are an exterior prime feature and must be individually capped



Remember to individually cap the Yellow and Orange wires

