



SolaMistTM

SOLAR POWERED MISTING SYSTEM

US PATENT PENDING

OWNER'S MANUAL

NOTE: Your new SolaMist mosquito and insect misting system qualifies for a 30% federal tax rebate. This means that you will receive a 30% tax credit for the entire purchase amount. Go to www.RemingtonSolar.com and click on “Tax Rebate” for details.

Your new SolaMist mosquito and insect misting system includes:

- SolaMist “egg shell” unit
- Touch screen spray schedule controller
- Solar panel with 9 foot cord and stand
- 45 feet tubing
- 15 tube clips
- 15 spray nozzles
- 1 T - fitting
- 1 coupling
- 2 end cap nozzles
- 15 field stakes
- 1 hand held remote control for instant sprays
- 1 tube sharpener for trimming the ends of tubing.
- 1 SolaMist Pro Concentrate for one fill (approx. 2-4 weeks usage)
- iPhone and Android application (available on iTunes and Google)

MAIN ACCESSORIES



Nozzles



Screw Clips



Tubing



Handheld remote control



Nozzles with end cap



Tube Sharpener



T- fitting



Coupling



WINTERIZATION

Freezing can damage the tubing, nozzles, pump, and unit. Before the first freeze, empty your SolaMist unit. Pour approximately one gallon of environmentally safe windshield washing fluid into the unit. Run the unit in one-minute bursts until the unit has used most of the liquid. *Failure to do this procedure will void the warranty. Keep your SolaMist in a garage or warmer place through the cold winter months.*

USE ALL 15 NOZZLES!

Use a minimum of 15 nozzles and a maximum of 30 for your spray tube. Fewer than 15 nozzles on a tube will be too much pressure and can damage your tubing, pump, and/or nozzles. More than 30 nozzles may not open the nozzle valves. Therefore, when customizing your spray area, make sure you put ALL your 15 nozzles on a single tube line before putting on a check valve.

“20 SECOND” RULE!

The app and controller that manages your spray schedule and your “one minute spray” feature refreshes every 20 seconds. This means that *if you send a lot of commands too quickly on your app to SolaMist, the system may freeze.* This is not a flaw in the system, rather it is how you can control and kill mosquitoes from anywhere in the world. If the controller is unresponsive, you will need to turn off the controller and restart. If you want to reset the spray schedule, set it, and then wait at least 20 seconds before you send any other command through the app or on the controller directly. Go slowly with your commands!

TIGHTEN NOZZLE HEADS FIRST

Before starting your SolaMist, make sure the nozzle tips are screwed on tightly. The very ends screw on for easy cleaning if necessary. Just make sure they’re screwed on tight or they tips can pop out and disappear!

QUICK START GUIDE

Your new SolaMist mosquito and insect misting system is the most advanced and easy-to-use system on the market. Your SolaMist system does not have a plug-in charger. It is only powered by your solar panel which stores electricity in the battery.

The controller inside your SolaMist unit is designed to stay on. The screen will darken after 2 minutes of idling to conserve power. It's a good idea to turn it off for the winter months and turn it back on in springtime. Just remember to give the battery a full charge by connecting it to the solar panel for at least 4 hours before using. It's easy to reset your schedule any time.

SolaMist comes with 15 nozzles although it can support up to 30 nozzles. If you want to cover a bigger area, you can purchase the extension kit on our website www.remingtonsolar.com.

HOW TO INSTALL

1. INSTALL THE SOLAR PANEL



Fig. 1

Place your solar panel in a sunny place with the panel angled towards the maximum angle of the sun. It should only require about 4 hours of light to get a full charge, even in a cloudy day.

If you prefer to mount the panel farther away from your unit, longer extension cords are available in the SolaMist online store through the SolaMist app or by going to RemingtonSolar.com)



Fig. 2

Connect the cable from the solar panel to the controller. Screw the quick connect neck in tightly.

2. CONNECTING THE TUBING

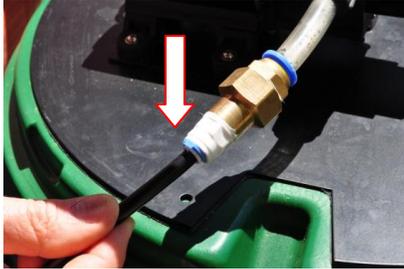


Fig. 3

Cut about 1-2 feet of tubing, plug one end into the pump by firmly insert it in as far as it can go.

ONCE THE TUBE IS INSERTED TIGHTLY, DO NOT UNPLUG WHERE THE ARROW IS FROM THE PUMP TUBING, THIS MAY DAMAGE THE PUMP.

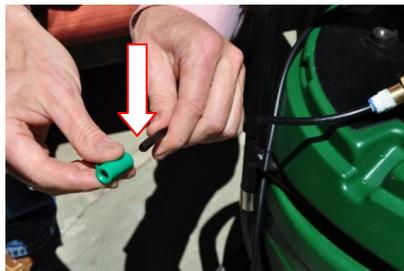


Fig. 4

Plug the other end into the coupling. You will insert one end of the rest of the tube into the same coupling to connect the whole system.

In the future, whenever adding or changing tubing or taking you SolaMist on the go, disconnect from coupling (Fig. 4). DO NOT PULL THE TUBING OUT FROM (Fig.3)

SolaMist was created for you to customize your own mosquito-free zone.

Your unit has been supplied with 45 feet of tubing. You may choose to take the entire 45 feet in your yard to use as a portable sprayer for a different location/purpose (such as camping, RVing, sporting events, picnics, etc.) **(AGAIN, BE SURE TO USE A MINIMUM OF 15 NOZZLES PER SECTION. FEWER NOZZLES WILL BE TOO MUCH PRESSURE AND BURST THE NOZZLES OR TUBING)**. You would simply disconnect from the link you added, and take it along with the rest of tubing and nozzles with you. Use the ground stakes provided to elevate the nozzles/tubing off the ground.

IMPORTANT: The tubing may shrink and expand with cold or hot weather. If you choose to keep your tubing installed through a cold winter, make sure that you leave some slack in the tubing for slight contraction. If the tubing shrinks, just adjust it (loosen) and press the nozzles back on.

3. INSTALL NOZZLES

First, we recommend you decide what area you want to make bug-free. You also need to consider where you put your unit, and where you put your solar panel so that it will catch the most sun. Your panel has to be in the sun for about 4 hours every day to give the battery a full charge. However, your unit will only run for a few minutes a day (at the most), so you shouldn't have to worry about running out of power.

Once the location of the main unit and panel is decided, you can then lay out the tubing in a general path where you want your spray zone. You will probably want to conceal the tubing as much as possible, but giving the nozzles clearance to spray. Laying out the tubing first will let you know roughly how much tubing you need to work with. You may want to go vertical up to a tree, fence, or porch trim. You only have to put nozzles where you want the spray to be. So you may not put a nozzle on the first few feet or so. Preferably, you want the nozzles to be at least 5-6 feet off the ground.

You will be cutting the tubing and adding nozzles in between. We recommend that you space the nozzles 3 feet apart. Use sharp scissors to cut through the tubing where you want a nozzle. Simply wiggle the ends in, press and twist on the nozzles in between the cut.

IMPORTANT: Make sure the tip of all the nozzles are screwed in tightly to the body of the nozzle.



Fig. 5

Trim the ends of the tube using the tube (pencil-style) sharpener for $\frac{1}{4}$ " tapered,



Fig. 6

Wiggle it into the nozzle opening about $\frac{1}{4}$ " on each end, press hard then twist it several times.



Fig. 7

Use the provided screw clips to attach tubing on wood material like trees, fences, or trim. Put screw clips about 2 inches away from the nozzles so when the tubing does shrink during the cold weather, those nozzles will not be in the way to stop the natural movement of the tubing.

Tip: Install the nozzles before you screw in the tube will make the job a lot easier.



Fig. 8

Adjust the nozzles after the tube is installed to get your desired spray angle.

You can also use stakes for campouts when there are no trees or anything to hang the nozzles. (Just be careful with kids, pets, and even grownups walking through the tubing!)

The SolaMist pump is powerful enough for you to use 30 nozzles on 90 feet of tubing. However, if your spray zone does not require so many nozzles like that of a balcony, we recommend you cut off some of the tubing as a portable system. You may also go to SolaMist store through your app or online to www.RemingtonSolar.com to purchase additional panels and portable kits if necessary.

REMEMBER: Due to the pressure of the pump, you need at least 15 nozzles in each continuous section of tube when customizing your spray area, make sure you put your check valve after a minimum of 15 nozzles.

4. USING THE “CHECK VALVE”

If you purchase extension kit to cover a bigger zone, you will have 1 check valve and 1 T-fitting. Check valve is a little on/off switch that allows the fluid to go through the tube...or not. You don't have to use these accessories, but they are provided so that you can be flexible in customizing your own spray zone. Placing a check valve after your first 15 nozzles (approximately 45 feet) will allow you to turn off fluid flow temporarily to conserve your misting concentrate beyond where you put the check valve. For example, if you have a covered porch area, and your barbeque grill is 60 feet away, you may consider putting a check valve in between so you can make your porch area bug free, but not waste concentrate if you are not grilling that day.

**DO NOT TRY TO DISCONNECT THE TUBING FROM THE CHECK VALVE,
THIS WILL DAMAGE THE TUBING**

SOLAMIST PRO CONCENTRATE

Your SolaMist system comes with one refill of SolaMist Pro Concentrate.

- **IMPORTANT:**
Fill the main “egg” unit with water first (leave about an inch for the SolaMist Pro concentrate). Then add the concentrate. If you add the concentrate first, foaming will occur.
- **IMPORTANT:**
SolaMist Pro Concentrate is formulated for the SolaMist mosquito and insect misting system only. Our concentrate has surfactants and other cleaners in the formula which will keep the nozzles clean.

NOTE: SolaMist Pro Concentrate is a non-toxic environmentally friendly pesticide. In national tests compared to other misting concentrates, however, SolaMist Pro Concentrate is shown to be the most effective at actually killing mosquitoes, gnats, wasps, spiders, and roaches.

You may also use Riptide, a pyrethrum-based product which is also effective at killing mosquitoes. Pyrethrum, a derivative of the chrysanthemum flower, also has very low toxicity. If you use your SolaMist infrequently, you may want to agitate the Riptide solution in your SolaMist reservoir with a clean stick occasionally.

How long with my concentrate last?

NOTE: Most other mosquito systems are designed without real regard to conserving misting concentrate, especially the larger 55 gallon systems. (Guess why that is!) SolaMist is designed to allow you the flexibility to use the system only when you need it, and where you need it...thus managing your SolaMist Pro concentrate expenses. You may order refills using our iPhone or Android app, or by going to our website at RemingtonSolar.com. You may purchase online in 4-packs of 16 oz. Light use will last you estimated 10 to 12 weeks for a system of 15 nozzles, heavy use will last 6 to 8 weeks.

The spray time is preprogrammed for 45 seconds per each spray with 10 minutes interval. This setting you cannot change. But you can choose how many sprays you

want. Your SolaMist reservoir is approximately 12 gallons. You will get approximately 120 45-second sprays if you use 15 nozzles. Using the maximum setting of 5 sprays in the morning and 5 in the evening, you can expect to go through your concentrate in about 2 weeks. And if you use your system in the evening (for example) but not in the morning, then you can go nearly a month on one fill.

One of the greatest benefits of using the SolaMist system is that you control your usage and costs. It is not uncommon for **other misting systems** to cost \$150-200 per month to run. **With SolaMist, your costs can be a fraction of that,** depending on when and how you use your system.

SET YOUR SPRAY SCHEDULE

You have two choices. You can use

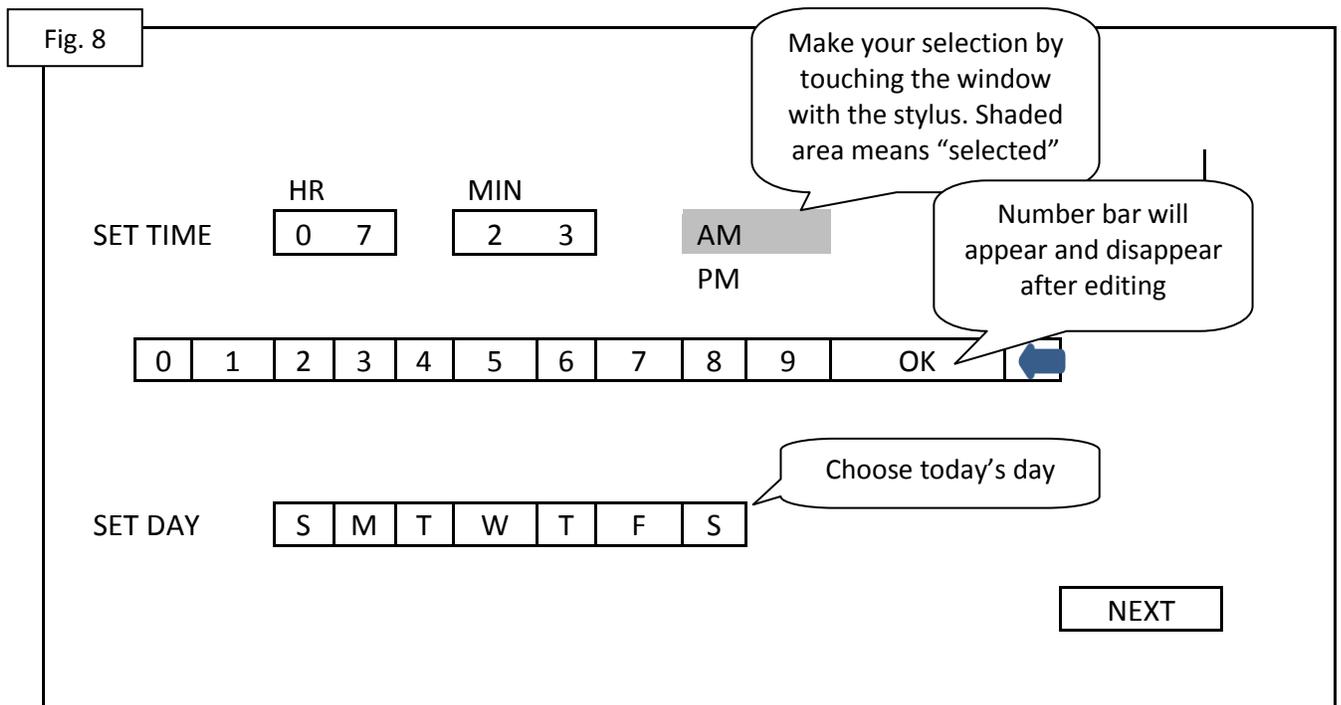
- **The touch screen controller** in the unit to set your spray schedule. Or you can use our
- **iPhone or Android app.** (search the iTunes or Google stores for “solamist”). Whether you use the app or the controller itself, the last schedule you set will override the previous one.

1. Using the controller

IMPORTANT: Your controller must stay on for the system to operate. It does not matter if it is in “Online” or “Offline” mode. The screen will darken after two minutes to conserve power. Touch the screen to activate.

SolaMist is designed to be a “set and forget” type of system. Mosquitoes are more active in the morning and the evening. Our misting solution is most effective by spraying in 45 second bursts every 10 minutes. You have the choice of how many sprays you want in each cycle. You may choose up to 5 sprays during a 50 minute period. For heavy mosquito populations, you may want to choose 4 or 5 sprays per cycle. For light mosquito populations, you may want fewer. You can always use the “1 minute instant spray” button to spray one burst for 60 seconds for a boost anytime you need it, this will not interfere with the previously programmed cycle.

When you open the lid of the “egg”, you will see a touch screen controller. Activate the controller and you will see a master display. Below is a flow chart to guide you through each setup.



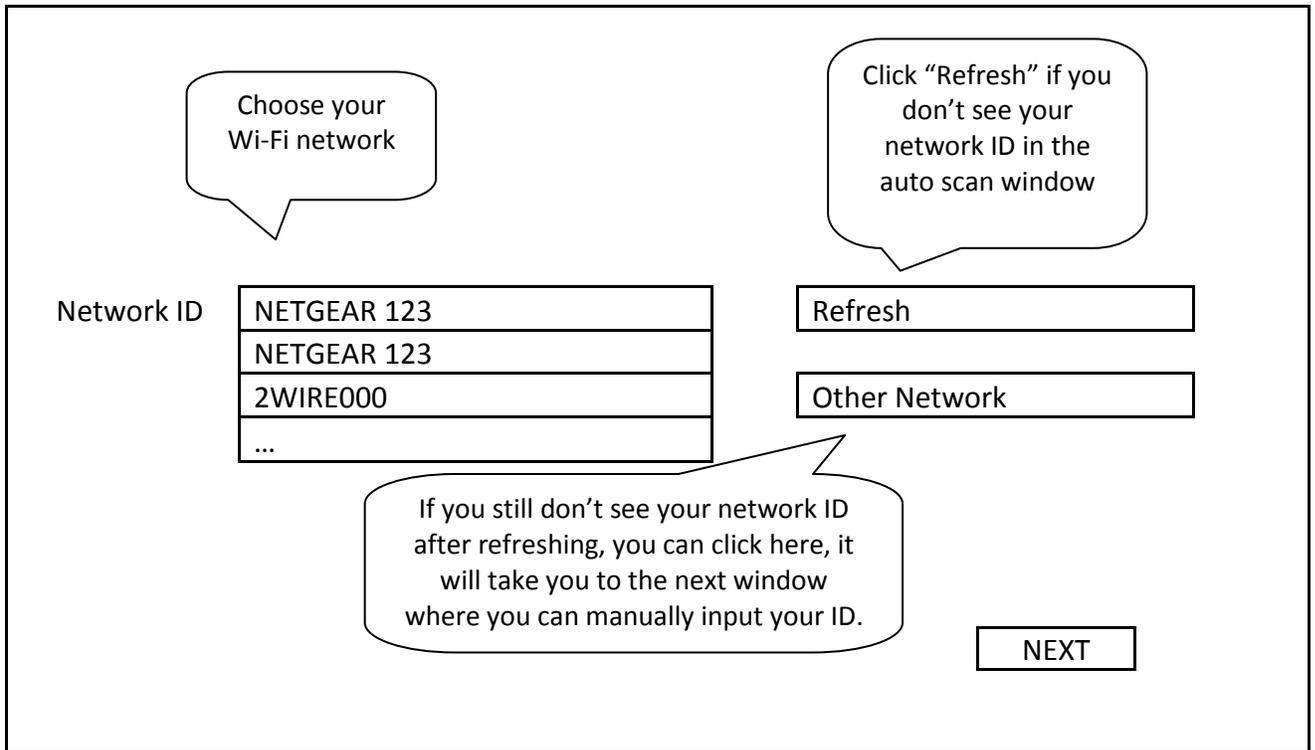


Fig. 9

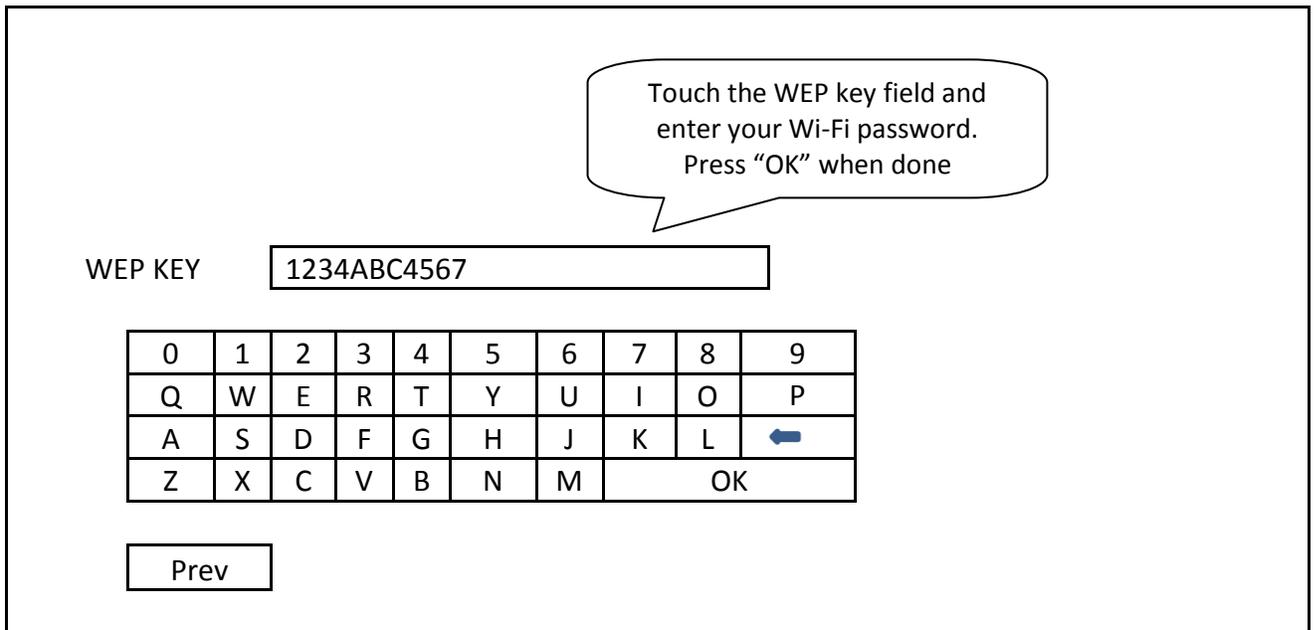


Fig. 10

After turning on your controller using the button on the right side, you will see Fig. 11 on the controller screen first.

To connect to your Wi-Fi, simply press **SETTING** on the screen, and then follow the same instructions in the User's Manual.

These units are programmed to store your Wi-Fi information. You do not need to re-enter the Wi-Fi ID nor the password again after you set it for the first time.

However, you may use SolaMist *without connecting to Wi-Fi* and simply manage your schedule through this touch-screen control panel instead.

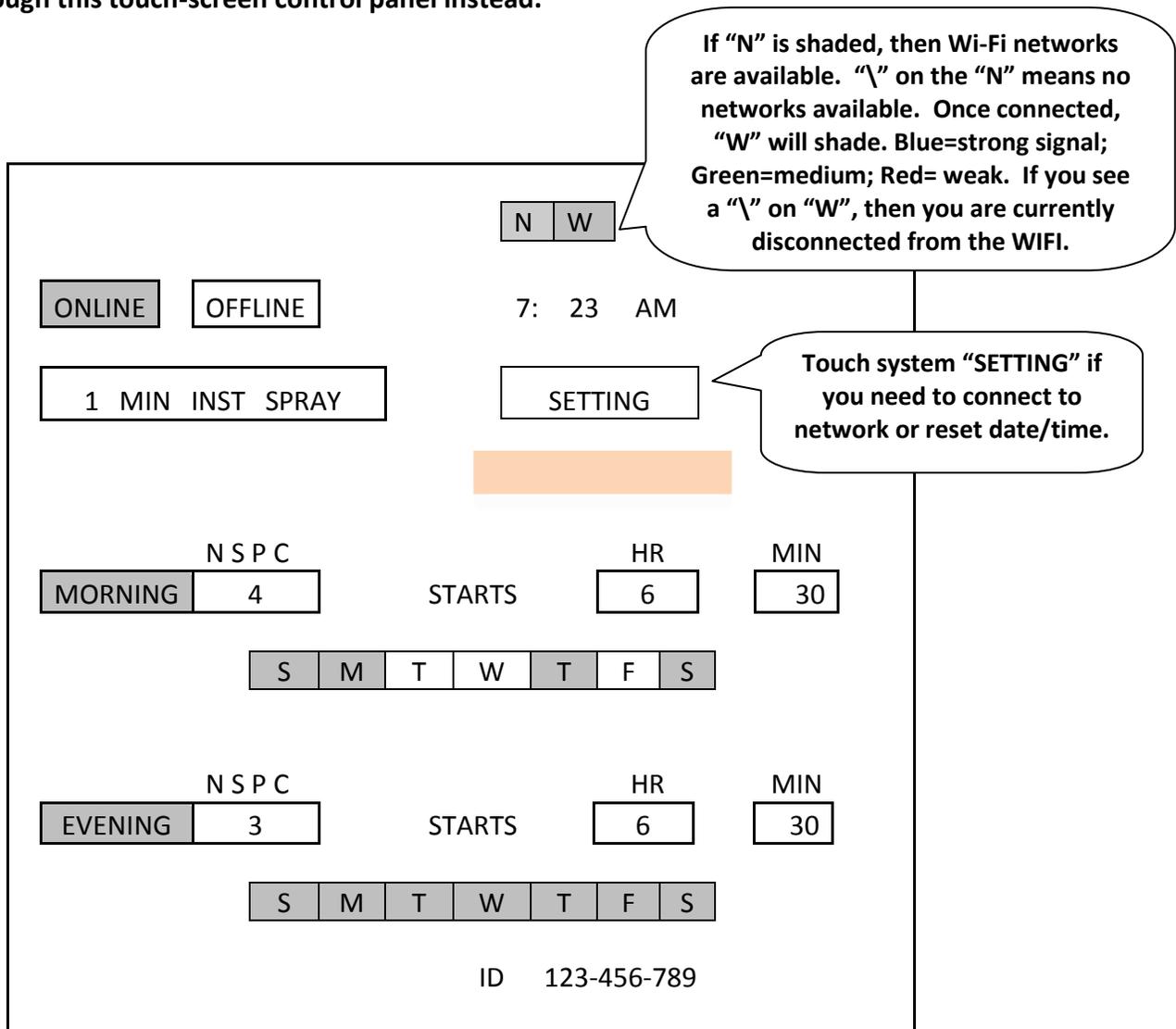


Fig. 11

Once set, it will automatically save the information. The latest setting will also automatically overwrite the previous one; it doesn't matter if it is set through the app, or on the controller screen.

Note:

- "NSPC" Stands for "Number of Sprays Per Cycle". Each spray last 45 seconds, delivered at 10 min interval.
- You can add a single minute of spray by touching "1 min inst spray" any time.

2. Using the iPhone or Android app



IMPORTANT: You will need a strong Wi-Fi signal for your SolaMist to operate with your app. If your SolaMist is too far from your Wi-Fi router, you will either need to move the SolaMist closer, or purchase a Wi-Fi booster and put it near the SolaMist unit. (You will get a “network error” message if the signal is too weak.) If you can’t connect to a network, the system will automatically switch to “Offline” mode, in which case, you can only program the schedule through the main controller.

If you do not use the Wi-Fi, you can still program your spray schedule (as well as initiate one-minute sprays) from the touch-screen controller. You just won’t be able to use your smart phone.

Go to the iTunes App Store or Google, search for SolaMist and download the app.

After you programmed your controller on the unit, YOU WILL NOTICE A 9-digit ID NUMBER ON THE BOTTOM RIGHT OF YOUR CONTROLLER DISPLAY. This is your product ID. You will need to enter this number into your app once you download your smart phone app. Once entered, you will be able to reset and control your SolaMist system using your smart phone.

Your SolaMist unit is Wi-Fi compatible. You will be able to change your spray schedule, initiate a 60 second spray, order refills, all through your smart phone.

Note: If you take your SolaMist camping or somewhere it is not connected to Wi-Fi, you will still be able to adjust your spray settings by using the control panel inside the unit. You will not be able to use your mobile app to remotely control it.

Below is a simple screen shot of your smart phone screen once you download the app:

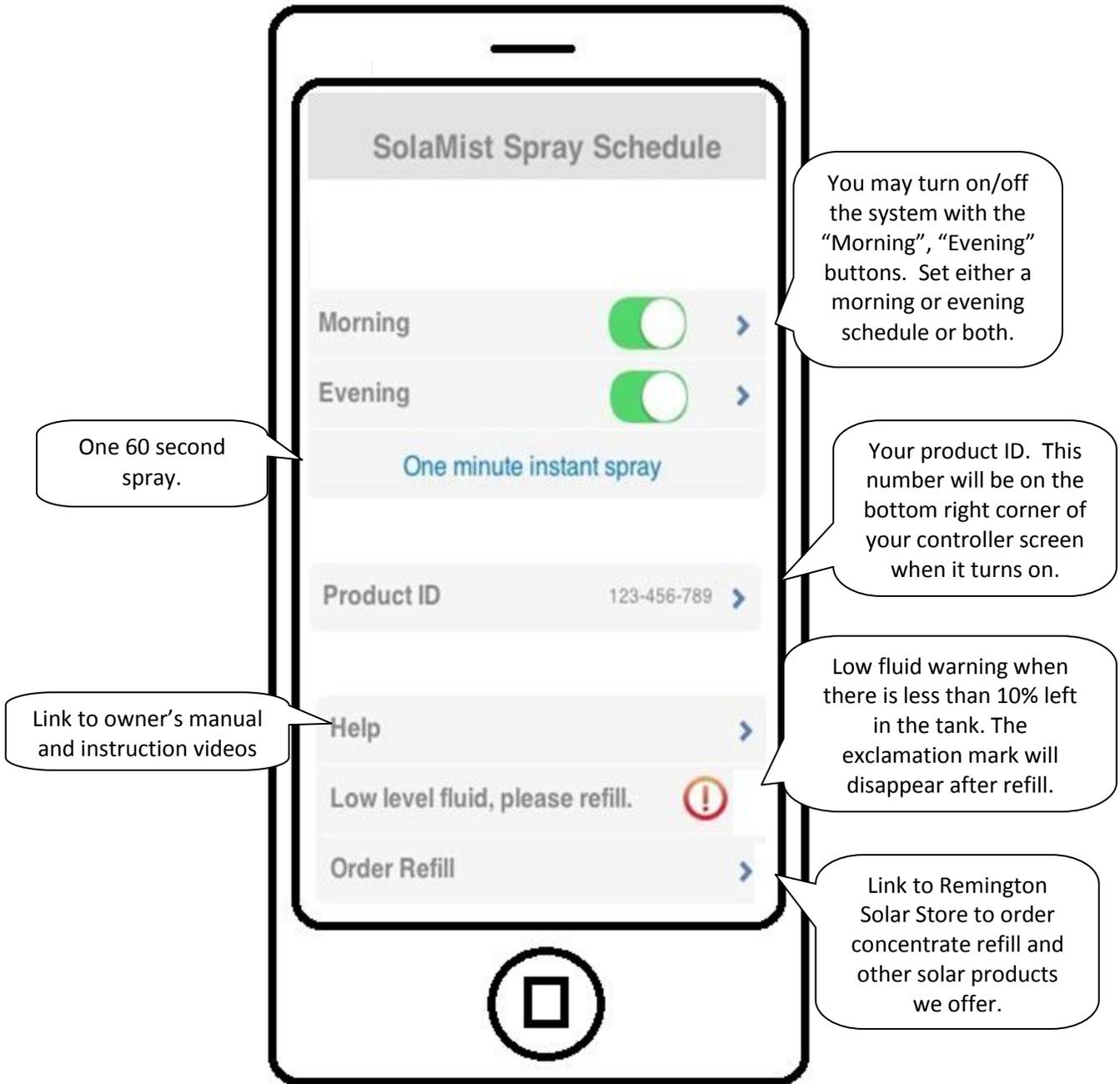


Fig. 12



Fig. 13

Last but not least, for your convenience, we also provide you with a small handheld remote control with “1 min instant spray” command. Aim it towards the controller; hold the button down for 5-10 seconds until the sprayer turns on.

Removing the tubing from SolaMist (For winterization or portability)



DO NOT ATTEMPT TO REMOVE TUBE FROM POINT “A”. **Once you have inserted the tubing in “A”, it cannot be removed.** However, you may remove the tubing from point B. (Above)

Push the blue ring (Point “C”, below) against the brass fitting.



Once the blue ring is against the brass fitting, the tubing pulls right out. (below)

TROUBLE SHOOTING

The SolaMist system is designed to be a set and forget trouble-free experience.

We recommend you winterize your system by running about a gallon of environmentally safe windshield washing fluid through your system when the first cold snap comes in. Also, you may extend your battery life by keeping the unit out of the freezing weather, such as a garage or storage unit.

SolaMist Concentrate refills can be purchased through the app.

Additional troubleshooting information is available by clicking on the HELP button on your SolaMist app.

If you would like an additional solar panel with tubing and accessories (as a separate portable kit), you may go to RemingtonSolar.com.

Warranty and Registration information available through the smart phone apps.

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