

OPERATION GUIDE



TORNADO

4-Gallon 18V Battery Powered
Backpack Sprayer

Model #: SMSAAH-2



ATTENTION

Please read the following information carefully. Failure to follow instructions or improper use could lead to explosive failure causing serious injuries.

After using sprayer with chemicals, it is important to spray with fresh water for 3-5 minutes to ensure residual chemicals in the gun, wand, tank, pump, and hose are cleaned out. This will extend the life of your sprayer. Never leave chemicals or solutions sitting in your sprayer after using.

Do not store your sprayer in extremely high temperatures. Heat can lead to the build-up of pressure within the sprayer, resulting in a possible explosion. If there is pressure in the pump, do not try to remove it with tools. Do not try to make modifications to the sprayer. Always use SprayMate™ branded replacement parts from the manufacturer.

Never spray flammable, caustic, acidic, chlorine, or other corrosive solutions or heat, pressure, or gas producing chemicals. Always read and follow chemical manufacturer's instructions before use with this sprayer as some chemicals may be hazardous when used with this sprayer.



WARNING

This product contains chemicals, including lead, known to the state of California to cause birth defects and other reproductive harm.

This product is designed to apply chemicals that may be harmful and could cause serious personal injury if inhaled or brought into contact with the user

NOTES:

1. The sprayer may have residual water in it due to quality testing performed on it.
2. Some parts may be found inside the tank when first assembling the sprayer. Please make sure to remove the parts before attempting to assemble or use the sprayer for the first time.

After long periods of time without use, the battery may have a low voltage and will require extended charging.

Always wear protective clothing, respirator, gloves, eye protection, etc. when using chemicals.

Never spray chemicals against the wind, towards humans, animals, or food.

Do not operate sprayer in temperatures lower than 32°F.

Never operate with strong acids, strong bases, or flammable liquids.

Never fill the sprayer with hot liquids (max temp. = 176°F) or gasoline.

Do not dispose of lithium-ion battery with household waste; recycle where facilities exist.

The sprayer is susceptible to water damage if left in wet conditions.
Always store it in a cool, dry place.

Always use SprayMate™ original replacement parts.

Do not leave the sprayer in reach of children or persons not qualified to handle it in a proper fashion.

REGISTER YOUR SPRAYER!

To take advantage of the 1-year Limited Warranty from WESSOL, LLC. Register your sprayer at the website below:

www.buyspraymate.com/register

Please read and follow this manual carefully to ensure that you get the most out of your new sprayer. If you need assistance with the assembly or operation of your sprayer, please don't hesitate to contact WESSOL, LLC via the support methods below:

www.buyspraymate.com

support@wessol.com

+1 803.339.2500

LET'S
GET
SPRAYING!

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WHAT IS YOUR SPRAYER CAPABLE OF?

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A SprayMate™ is a highly efficient sprayer that is suitable for spraying many kinds of water-soluble chemicals.

This includes fertilizers, pesticides, cleaning products, etc. Powered by a 18V lithium-ion battery, this sprayer results in 2-3x more efficiency than a manual sprayer. This sprayer can be operated continuously for up to 2 hours and spray at a distance of 25 feet.

SprayMate™ Tornado Specifications			
Model Number	SMSAAH-2	Pump Type	Diaphragm
Battery Type	Lithium-ion	Spray Time	up to 2 hours
Battery Voltage	18V	Pressure	45 or 60 psi
Battery Capacity	2.6Ah	Spray Distance	25 feet
Battery Charging Time	2.5 hours	Tank Capacity	4 gallons
Battery Cycle Life	1000 cycles	Flow Rate	up to 0.33 gal/min
Battery Charger	21V/1Ah	Pump Life	1000 hours



WHAT'S IN THE BOX?

1. Tank Lid 2. Intake Filter 3. 4-Gallon Tank
 4. Top & Bottom Holsters 5. Backpack Straps 6. 5-Foot Hose
 7. Carbon Fiber Spray Wand 8. 18V Lithium-Ion Battery
 9. In-line Spray Handle 10. 21V Battery Charger
 11. Nozzle Thread Adapter 12. Adjustable Cone Nozzle 13. 110° Fan Nozzle

STEP 1

ASSEMBLING YOUR SPRAYER

Required tools: Phillips head screwdriver

- A)** Before you begin, open the tank lid (1) and remove any nuts and bolts that may be placed inside the intake filter (2). Set aside.
- B)** Bring the backpack straps (5) to the bottom of the tank. Secure lower strap clips to the tank loops near the bottom of the tank. Next, slide the adjustable strap through the top tank loop. Continue by sliding the strap over and under the buckle fitting. Lightly tug at the strap to make sure it's secure. Repeat on other side.



- C)** Place the top wand holster (4) on the proper location on tank. While holding the holster, place a nut on one side of the hexagonal slot and screw the bolt through the other side until it fastens into the nut. Repeat for other slot and bottom holster.



- D)** Take the in-line spray handle (9) and attach it to the threaded fitting on the end of the hose (6). Tighten the fitting to ensure the gasket properly seals the connection.
- E)** Attach the carbon fiber spray wand (7) onto the other end of the in-line spray handle by screwing the wand collar into the threads on the spray handle. The wand can be placed in the holster until ready to spray.

STEP 2

PREPARING TO SPRAY

- A)** Fully charge the battery (8) prior to first operation. In a separate container, prepare the solution you want to spray according to the manufacturer's instructions. Open the tank lid and carefully pour the solution through the intake filter. Securely tighten the tank lid.

- B)** Determine which nozzle is appropriate for your project. Attach the nozzle by threading it onto the tip of the spray wand.
 - a) **Adjustable cone nozzle** = adjustable conical mist to jet stream
 - b) **110° fan nozzle** = angled flat fan spray

- C)** Insert the charged battery into the battery slot on the backside of the sprayer tank and snap the cover in place.

- D)** Turn the pump on by flipping the power switch on the side of the unit. Position "I" will activate the pump at 45 psi while position "II" will activate the pump at 60 psi.

- E)** Begin spraying by squeezing the trigger on the in-line spray handle.



STEP 3

AFTER YOU FINISH SPRAYING

- A) Dispose of extra product based on manufacturer's instructions. Rinse out any residual solution in the spray tank with warm, soapy water. Then spray fresh water through the sprayer for 3 to 5 minutes to completely clear the tank of chemicals.
- B) Disconnect the in-line spray handle and allow the hose to hang down towards the ground to drain residual water.
- C) Dry the sprayer tank and clear the nozzle or wand attachment of any buildup.
- D) Store the sprayer in a clean, cool, shaded location to protect it from extreme heat or frost.
 - * For long-term storage, regular charging of the battery is required to maximize battery life. Check the status by activating the indicator lights every 4 weeks. Charge the battery if it falls below 3 bars. Never allow the battery to become fully discharged.

NOTE:

Proper sprayer maintenance is crucial to ensure the life and performance of your sprayer. Many spray materials can harden if left in the sprayer causing clogs in the nozzle or hose. Gasoline should never be used to clean out your sprayer.

TROUBLESHOOTING YOUR SPRAYER

To contact Technical Support, message support@wessol.com or call 1 (803) 339-2500

PROBLEM	POSSIBLE REASON(S)	SOLUTION
Sprayer is not turning on and there is no sound coming from the sprayer.	Dead battery	Charge the battery. If the battery will not charge, test the charger or call Support at (803) 339-2500 for a replacement if applicable.
	Loose/worn connections on power switch	Remove back plate. Using pliers, move all three wires on the power switch over to the neighboring side, to the extra set of wire contacts.
	Defective micro-switch	Purchase replacement part or contact Support for help.
	Defective circuit board	Purchase replacement part or contact Support for help.
Leaks from gun/nozzle area.	Loose connection	Ensure spray handle is fully tightened onto threaded end of the hose.
	Missing or worn gasket	Contact Support or go to buyspraymate.com to purchase replacement gaskets.
Clogged pump / hose / gun / wand / nozzle.	Not rinsing tank / pump / hose / gun / nozzle(s) with water after use.	Rinse sprayer thoroughly with warm, soapy water after each use.
Dead battery	Defective charger	If the LED indicator lights do not turn on or only one red LED is on after being on charger for over 2 hours, test the charger using a multimeter. Replace if necessary.
	Damaged lithium cells	If the battery receives no reading from a multimeter, a replacement battery is needed.
Pump makes a sound when sprayer is on and output is	Clog in filter or nozzle	Check filter or nozzles for clog. Using warm water, thoroughly clean the components.
	Clog in pump	Open the pump and clean. Contact Support for assistance.
Leak from sprayer tank	Loose hose-pump connection	Open back plate and identify the hose clamps. Use a flathead screwdriver to tighten.
	Damage on pump	Replace the pump.
	Damage on tank	Replace the sprayer tank.

REPLACEMENT PARTS & ACCESSORIES

Visit buyspraymate.com to view and purchase parts.



1. FZAAEN

18V/2.6Ah Battery



2. FZAAEP

21V/1Ah Charger



3. FZRABW

Intake Filter



4. FZRADE

In-line Spray Handle



5. FZRADK

Carbon Fiber
Spray Wand



6. FZRAED

Backpack Straps



7. SMRAEJ

Top Holster



8. SMRAEK

Bottom Holster



9. SMRAEP

Tank Lid



10. FZRAEF

5-Foot Hose



11. FZRACM



Inlet Filter



12. FZRAFC



Standard/Dual-
Pressure Pump



13. FZAABD



110° Fan Nozzle



14. FZAABB



Adjustable Cone
Nozzle

WESSOL, LLC LIMITED WARRANTY

WARRANTY COVERAGE

WESSOL, LLC warrants to the original purchaser that the SprayMate™ product will function as intended under normal use and consistent maintenance, subject to certain limitations and exclusions. At the discretion of WESSOL, LLC, we will repair or replace any parts found to be defective in material or workmanship without charge, apart from shipping and handling costs, during the covered warranty period.

WARRANTY PERIOD

The warranty period will begin from the date of retail purchase and exist for one (1) year, regardless of when the unit is placed in service. The warranty period is not extended if we opt to repair or replace the product in question.

WARRANTY CLAIMS

WESSOL, LLC reserves the right to require the return of the defective product, proof of purchase, and established product registration to file a claim under this warranty.

If the product fails to function as intended **DO NOT RETURN IT TO THE STORE**, call our Technical Support hotline at **+1 803-339-2500**, email **warranty@wessol.com** or submit a contact form at **buyspraymate.com**.

PRODUCT REGISTRATION

All sprayers purchased from FlowZone or an authorized distributor must be registered online to validate the warranty and allow for warranty claim processing. Sprayers can be registered at **buyspraymate.com/register**.



To file a warranty claim, visit:
www.buyspraymate.com/warranty





EXCLUSIONS AND LIMITATIONS

WESSOL, LLC only warrants products purchased from authorized distributors. Products purchased from unauthorized resellers or distributors are not subject to warranty services.

The limited warranty does not cover damages, loss, or injury resulting from transportation, storage, accident, improper use, neglect, modifications, normal wear, or operation not in accordance with the instruction manual. WESSOL, LLC reserves the right to change the design or specifications of any product without obligation to modify previously produced units.

ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR CONSUMER USE, ARE LIMITED TO THE DURATION SPECIFIED ABOVE. WESSOL, LLC'S LIABILITY IS LIMITED SOLELY TO THE REPAIR OR REPLACEMENT OF THE NON-FUNCTIONING PRODUCT OR PART. WESSOL, LLC EXCLUDES LIABILITY UNDER THIS WARRANTY FOR ANY AND ALL INCIDENTAL AND CONSEQUENTIAL LOSS OR DAMAGE.

In no event shall WESSOL, LLC be liable for any incidental, special, consequential or punitive damages, or for any costs, attorney fees, expenses, losses or delays alleged to be as a consequence of any damage to, failure of, or defect in any product including, but not limited to, any claims for loss of profits.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.



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