



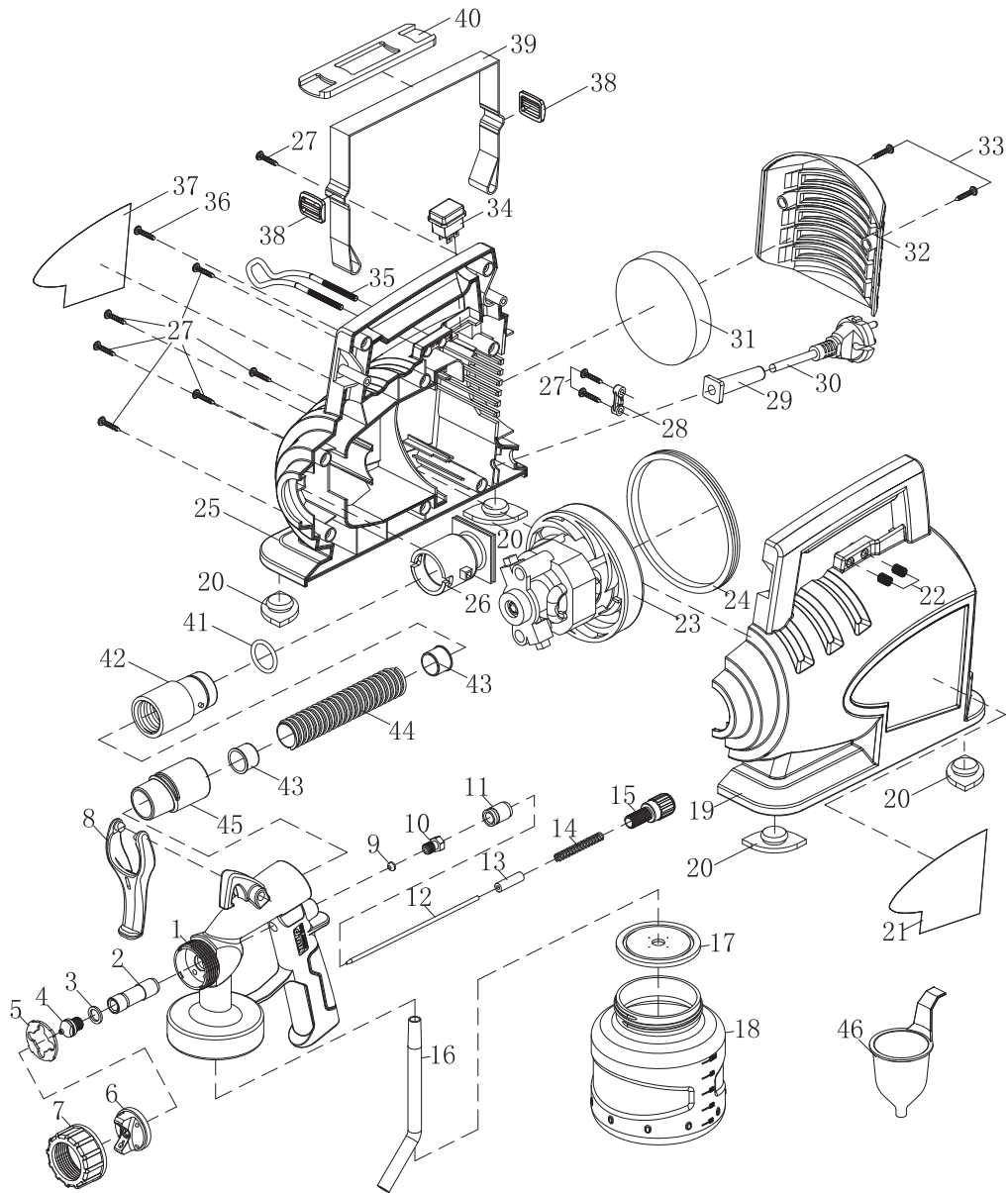
FINISHING SPRAYER

Instructions



Finishing Sprayer

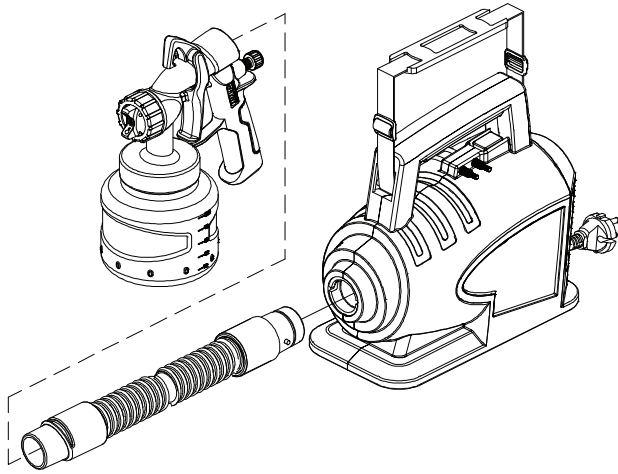
Parts Diagram



No.	Description	No.	Description	No.	Description	No.	Description
1	Gun Body	13	Needle Seat	25	Right Shuck	37	Right Label
2	Gun Body Insert	14	Needle Spring	26	Exhaust Tube	38	Strap Button
3	Sealing Gasket	15	Needle Adj. Knob	27	Screw	39	Strap
4	Material Nozzle	16	Suction Tube	28	Wire Clamp	40	Strap Pad
5	Airflow Separating Ring	17	Sealing Gasket	29	Wire Jacket	41	O-ring
6	Air Nozzle	18	Paint Container	30	Wire Subassembly	42	Connector
7	Locking Knob	19	Left Shuck	31	Air Filter	43	Airway Gasket
8	Trigger	20	Turbine Feet	32	Air inlet cover	44	Ripple Circle
9	Sealing Gasket	21	Left Label	33	Screw	45	Airway Connector
10	Sealing Screw	22	Fix Nut	34	Switch Assembly	46	Viscometer Cup
11	Gun Body insert	23	Turbine	35	Gund Body Hook		
12	Needle	24	Sealing Gasket	36	Screw		

Finishing Sprayer Assembly

Generally the Summit Finishing Sprayer comes pre-assembled. The 9 foot hose connects to the turbine via the port on the front side of the turbine. Then connect the hose to the port on the back of the spray gun assembly.



Sprayer and General Preparation

Know Your Spray Mediums: It is important to keep in mind that the Summit Finishing Sprayer is a versatile HVLP sprayer and can spray a variety of spray mediums like varnishes, wood preservatives, enamels, oil and water based paints. However, some materials can not be used with this sprayer. We recommend that you check with the spray medium manufacturer before making your purchase. If the spray medium container makes any note about brush application only, than the Summit Finishing Sprayer will more than likely not work correctly with that medium.

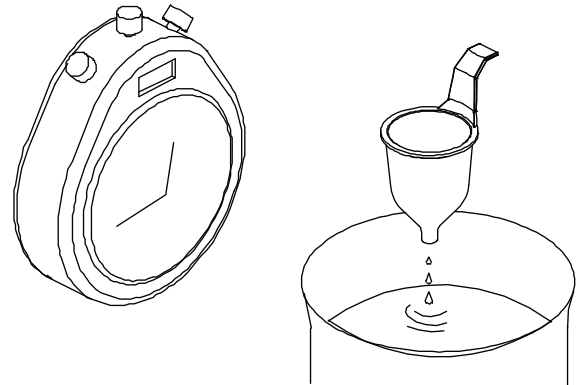
Preparation: Two of the most important steps before using the sprayer is preparation of the surface to be sprayed and thinning of the spray medium. Always be sure that the surface is clean of debris, dust, oil or grease. If necessary, clean the surface with sandpaper followed by a tack cloth to remove any remaining debris. Be sure to Mask any area that you do not want finished.

Thinning Your Spray Mediums: Included with the sprayer is a viscosity cup. Viscosity is the term used to describe the thinness or thickness of your liquid, or in this case spray medium. For example, If your spray medium is thin and runny the viscosity is said to be low, if your spray medium is too thick the viscosity is said to be high. It is important know that in order to spray some spray mediums you may have to thin it out for it to work with the sprayer. Most paints are supplied to be used with brushes or rollers and must be thinned out prior to use. To mea-

sure viscosity you will use the viscosity cup that is supplied. When thinning paint it is always recommended that you follow the paint manufacturers guidelines for thinning paint in conjunction with sprayer use. Paint is thinned by adding the substance that the paint is based in. Water based paints are thinned by adding water and oil based paint is thinned by adding white spirits. Some materials tend to have a grainy materials in them, to avoid any blockage in the sprayer, filter the spray medium through a filter before pouring it into the sprayer paint container. You can use paper filters or even nylon stockings to filter the spray medium. This will ensure that no large particles get into your gun.

Viscosity Range and Proper Thinning

The Summit Finishing Sprayer can be used with spray mediums that have a general viscosity ranging from 20 to 45 seconds. To acquire the viscosity, time how long it takes for the spray medium to completely drain through the supplied viscosity cup. Use the chart below to determine the correct amount of dilution if necessary for the particular spray medium.



Ideal Viscosity Ranges

Water base paints, emulsions & latex	20 to 40 Seconds
Oil based paints	35 to 45 Seconds
Wood Preservatives	No dilution needed
Primers	35 to 45 Seconds
Varnishes	No dilution needed
Aluminum Paints	No dilution needed
Wood Stains	No dilution needed

If your spray medium needs to be thinned out, begin with 10% dilution of the spray medium. Add the thinner to the spray medium and stir. Once evenly stirred, measure the viscosity again referring to the chart above. Repeat this process as needed, but reduce the the dilution rate to 5% instead of 10%.

General Operation

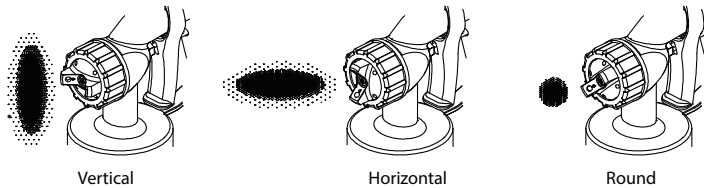
With your desired spray medium, fill the paint container up to but not past the top line (500ml or 18 fluid oz.) indicator. Screw the paint container over to the base of the spray gun and secure on to the base. Connect the hose to the back of the sprayer. Plug the power cord from the back of the turbine into a 120 volt outlet.

Caution: *Keep the turbine unit away from the spraying area as much as possible. This prevents the spray medium from contaminating the turbine motor.*

Once you are ready to spray, turn on the turbine motor. Paint will NOT come out of the gun until you gently pull the trigger. We recommend that before you start painting with the sprayer that you find a scrap piece of stock and practice until you get the feel of the sprayer and how it works.

Spray Patterns

The Summit Finishing Sprayer can spray in three different patterns: Vertical, Horizontal and Round. See drawing below.

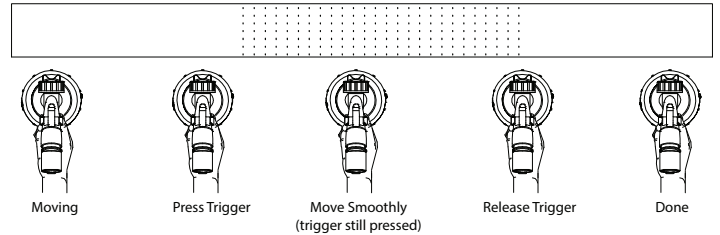
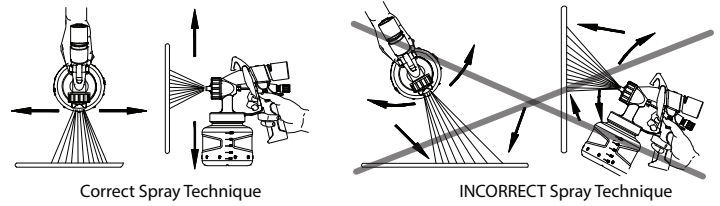


Generally the vertical and horizontal spray patterns are used for large areas while the round patterns is meant for smaller areas. To adjust the spray pattern loosen the locking knob and adjust the air nozzle.

Spray Volume, Distance and Technique

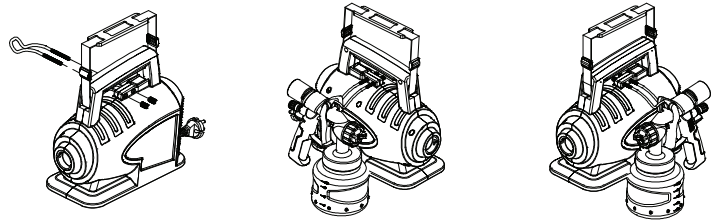
Paint Volume is adjusted by adjusting the needle adjustment knob to the desired position. By turning the needle adjustment knob counter clockwise you allow more paint to come out and turning it clockwise does the opposite. Make adjustments until you reach your desired output.

Spraying Technique is vital for a uniform and smooth finish. For best results you should keep your gun level and at an equal distance from the object. 10 to 12 inches from the object is optimal. Avoid spraying at angles as this may produce an uneven look. Smooth side to side or up and down movements work best, let your arm control the movement. For spraying at angles you should change the direction of the feed tube on the sprayer depending on which direction you will be spraying.



Fix and Use Spray Gun Hook

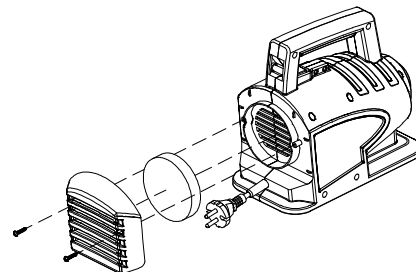
Fix the gun hook on the top of the turbine housing with the lind fix nut. Adjust the length of the hook if needed. The hook can be fixed to either the left or right side.



Clean and Protect the Unit

The spray gun MUST be cleaned after every use. If paint dries inside the gun, cleaning it will become more and more difficult after time and eventually render the unit useless.

1. Remove the paint container
2. Pour out any leftover paint or spray medium.
3. Pour some respective paint thinner into the container and re-attach to the gun. Shake the spray gun lightly and spray the thinner through the gun. Repeat this process until there is no remnant of paint coming through the spray gun.
4. Clean the outside of the gun.
5. Disassemble the gun unit and clean all the internal parts including the needle and any and all seals.
6. Clean the turbine air filter every couple of uses.



Trouble Shooting

Problem	Cause	Possible Solution
The spray medium drips on to object being finished	Spray medium is too diluted	Add undiluted spray medium
	Spray medium volume too high	Reduce the flow by adjusting the flow adjustment knob
	Moving too slowly	Speed up application
	Spray gun trigger held too long	Let go of trigger sooner
Spray medium appears thin	Gun too close to object	Move back from object being finished
	Paint is too diluted	Add undiluted spray medium
	Spray medium volume is too low	Increase the flow by adjusting the flow adjustment knob
	Moving too quickly	Slow down the application
Spray medium not coming out at all	Gun is clogged	Clean the spray gun
	Gun is too far away	Move closer to object being finished
	Spray medium is too thick	Add thinner
	Spray gun is clogged	Clean the gun
	Paint feed tube clogged	Clean the paint feed tube
	Hose is split	Replace the hose
	Grainy spray medium	Filter the spray medium
	Container almost empty	Fill container
Spraying at an angle	Make sure paint feed tube is angled toward object	
	Air intake blocked	Check for any blockage and clean



SAFETY INSTRUCTIONS

WARNING! FIRE AND EXPLOSION HAZARD

CAUTION: Reduce the risk of Electric shock, do not Expose to rain. Store sprayer and motor indoors.

- The substances used with this unit (varnishes, thinners etc) may contain hazardous and/or explosive or corrosive materials.
- **ALWAYS COMPLY WITH THE SAFETY INSTRUCTIONS ISSUED WITH THIS PRODUCT AND THE MATERIALS BEING USED DURING OPERATION OF THIS UNIT.**
- The sprayer must only be used with paints and solvents that have a correct flash point for spraying. If in question, check with the paint or solvent manufacturer's data
- Be sure that you have ample and adequate ventilation while spraying.
- NEVER use sprayer near an open flame.
- Do NOT smoke when using sprayer.
- Disconnect the turbine motor from the power supply when re-filling.
- Always disconnect the unit from the power supply when cleaning the spray applicator.
- Make sure the spray area is safe and free from all debris that may present a fire or trip hazard.
- NEVER point the spray gun at another person or animal. In the event of injury occurring, seek expert medical attention immediately.
- Read the paint manufacturer's instructions before use.
- Always wear a protective face mask when spraying.
- Use the equipment only as detailed in these instructions.
- Check the hoses, hose connectors & power cord daily. Worn or damaged parts should be replaced.
- This unit is for household use only.



Summit Power Tools & Accessories
P.O. Box 921487
Norcross GA 30010