

INSTRUCTION MANUAL

(For Professional Use Only)

ST302PRO

Pro Series Spray Gun

DO NOT USE EQUIPMENT BEFORE READING THIS MANUAL



This manual contains important warnings and instructions.
Please read these instructions carefully and keep for your reference.

Maximst 2023

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ST302PRO Spray Gun Instruction Manual

Congratulations on purchasing the ST302PRO Spray Gun. This product has been specially designed to provide an efficient application of tanning solution products.

Take a minute to read and understand how to operate your new ST302PRO Spray Gun and you will be able to provide the perfect tan with every application.

Your ST302PRO Spray Gun is packaged with the following:

1. ST302PRO Spray Gun
2. Spare Parts Kit (3 cup gaskets, pick up tube, gland seal, spanner wrench, needle spring, air supply tube,lubricant)
3. 3 Extra Cups w/Lids
4. Instruction Manual

1 General Safety Information:

Read all instructions and safety precautions before operating the unit.



THIS INDICATES A CONDITION THAT WILL CAUSE SERIOUS INJURY OR LOSS OF LIFE IF THE WARNING IS IGNORED.



THIS INDICATES A CONDITION THAT COULD CAUSE SERIOUS INJURY OR LOSS OF LIFE IF THE WARNING IS IGNORED.



THIS INDICATES A CONDITION THAT MAY CAUSE MINOR INJURY AND/OR EQUIPMENT/PROPERTY DAMAGE.



- Risk of fire or explosion! Solvent and paint fumes can explode or ignite, causing severe injury and property damage.
- Paints and solvents containing HALOGENATED HYDROCARBONS can react explosively with aluminum. Always check the product's label before using these materials in the unit.
- Hazardous vapors: Paint, solvents, insecticides and other materials may be harmful if inhaled, causing severe nausea, fainting or poisoning.
- Make sure the room is well ventilated. Avoid all ignition sources, such as static electricity sparks, open flames, hot objects, sparks from connecting and disconnecting power cords, and working light switches.
- Follow the material and solvent manufacturers' safety precautions and warnings. Do not use liquids with flash points less than 100 degrees Fahrenheit (38 degrees Celsius).
- Static electricity can be produced by HVLP spraying. Make sure any electrically conductive object being sprayed is grounded to prevent static sparking. The sprayer is grounded to prevent static sparking. The spray grounded through the electrical cord. If an extension cord is necessary, the cord must be a grounded with three wires made for the appropriate voltage used.
- Use a respirator or mask whenever there is a chance that vapors may be inhaled. Read all instructions with the mask to ensure that the mask will provide the necessary protection against the inhalation of harmful vapors.
- Do not carry the turbine while spraying.
- Keep the turbine at the maximum distance from the spraying area.



1 General Safety Information cont'd.:

CAUTION

• Tipping the Spray Gun causes the Spray Gun to clog. Dried spray material also clogs the pressure delivery tube and fittings. The Spray Gun does not function when clogging occurs.

• When not in use, be sure to disconnect the hose and place the Spray Gun into the holder in the turbine to avoid tipping.

GROUNDING INSTRUCTIONS

This product must be properly grounded. In the event of an electrical short circuit, grounding reduces the risk of electrical shock by providing an alternate path for the electrical current.

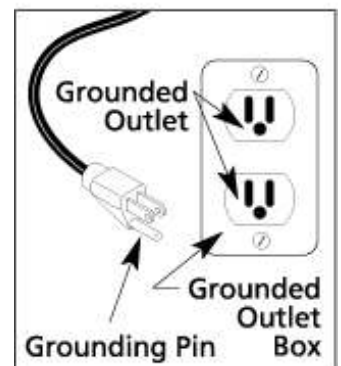
This product is equipped with a cord that has a ground wire and an appropriate ground plug. Plug the unit into an outlet that is properly installed and grounded in accordance with local codes and ordinances.

DANGER

IMPROPER INSTALLATION OF THE GROUND PLUG CAN RESULT IN THE RISK OF ELECTRICAL SHOCK. IF REPAIR OR REPLACEMENT OF THE PLUG OR CORD IS NECESSARY, DO NOT CONNECT THE GROUND WIRE TO EITHER FLAT BLADE TERMINAL. THE WIRE WITH GREEN INSULATION (WITH OR WITHOUT A YELLOW STRIPE) IS THE GROUNDING WIRE.



1. For any question regarding proper installation of the ground plug, consult a qualified (licensed or certified) electrician.
2. Do not modify the plug provided. If the plug does not fit the outlet, have the proper outlet installed by a qualified electrician.
3. This product is for use on a nominal 120-volt circuit and has a grounding plug that looks like the plug in Figure 2. Make sure that the product is connected to an outlet having the same configuration as the plug. No adapters should be used with this product.
4. If an extension cord is required, use only a three wire extension cord that has the same configuration as the unit cord, including the (round) ground terminal. Make sure that the extension cord is plugged into a properly grounded receptacle.
5. When using an extension cord, be sure it is in good condition and heavy enough to meet the specifications in the chart below. If an extension cord is needed the following wire sizes must be used.
6. (See Chart 1) Figure 2



25' cord.....	10, 12, or 14 Gauge
50' cord.....	10 or 12 Gauge
100' cord.....	10 Gauge

Chart 1 Extension Cord Requirements

1 Introduction

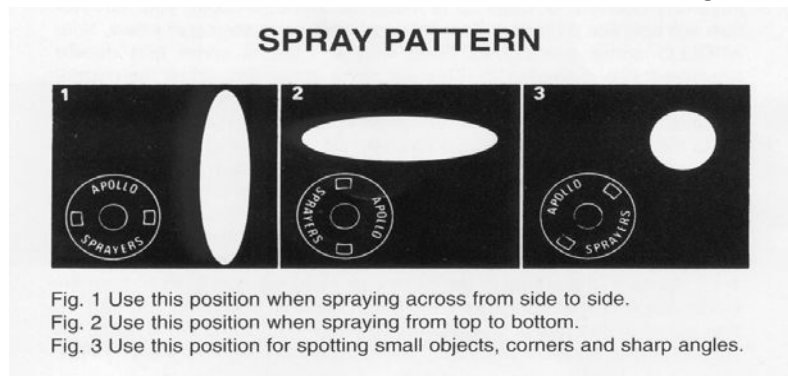
CONGRATULATIONS!! You have just purchased the finest HVLP Spray Gun available. You are about to enjoy the great benefits of HVLP spray tanning. Our designs are the result of many years experience in manufacturing HVLP spray systems and Spray Guns.

Whether you are new to spray tanning, you have sprayed tans before, or are just new to HVLP spray tanning, there are some basic spraying guide lines that will help you to achieve the best results and optimum success from your new equipment. Reading this information carefully and following these simple steps will ensure that you get the best performance and results from your new MaxiMist™ spray tanning system.

HOW MAXIMIST HVLP SPRAY TANNING SYSTEM WORKS

Your spray tanning system has three components: the motor unit, the air hose and the Spray Gun. The motor unit when connected to the correct electrical power supply and with the on/off switch in the “on” position, provides a continuous source of clean, warm, dry, High Volume Low Pressure (HVLP) air. The air hose connects the motor unit to the Spray Gun. Air flows through the hose to the nozzle of the specially designed Spray Gun. Atomization of the tanning solution is achieved when the air mixes with the stream of fluid passing through the tip/nozzle. This low pressure atomization principle achieves minimal overspray (wasted spray) to the environment.

The MaxiMist motor unit has one air hose outlet on the side of the case and is designed to run one Spray Gun.



Your Spray Gun offers you many options. You can adjust (click) the air cap to three positions. One will produce a horizontal pattern for spraying across, another will produce a vertical pattern for spraying up and down, and the third will produce a round pattern for detailing muscles or other intricate parts of the body.

FAMILIARIZING YOURSELF WITH YOUR ST302PRO SPRAY GUN

Familiarize yourself with the controls on the Spray Gun. There are three principal controls. The rotating air cap, the material flow screw and the air cap locking ring. Click the rotating air cap into each position. Horizontal, Vertical and 45°. When the air cap is in the 45° position the pattern is round. This is useful for spraying detail areas such as muscle toning and contouring. (Flow will increase when using the diagonal position and it is usually necessary to reduce the flow by adjusting the flow screw. (See Diagram Spray Patterns, Pg. 3). Next, turn the material flow screw anti- or counter-clockwise to open or release more fluid, clockwise to close or reduce material flow.

PREPARING TO SPRAY

You should now be ready to spray your client. Good quality results with your MaziMist spray tanning system are a combination of careful preparation of your client, a proper spraying environment, a basic knowledge of the solution you will be using and how these solutions work with your MaxiMist spray tanning system.

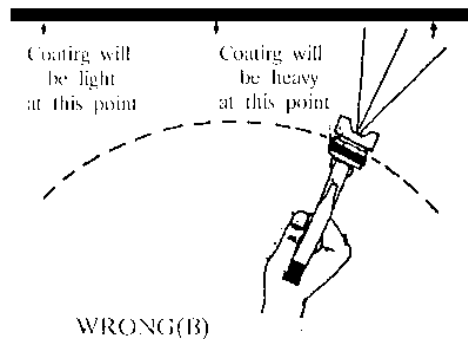
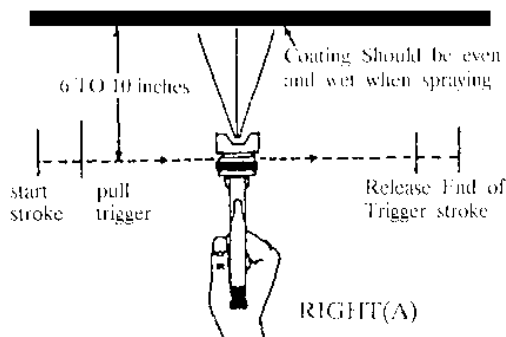
USING YOUR ST302 SPRAY GUN

Your MaxiMist ST302PRO is certified. This means your Spray Gun only uses approximately 3psi or less. All passages and air ports are much larger than an airbrush system. If one of these air passages becomes blocked, or build up of solution starts to occur, your spray pattern will become distorted. Therefore, always keep your spray gun clean. Your spray gun comes fitted with a custom size 0.5mm tip/nozzle and needle. This size has been designed to perfectly atomize a variety of UV Sunless tanning solutions. Using this size tip/nozzle and needle you can achieve from a 1/4" to 7" fan pattern, simply by rotating the air cap to the desired fan type (See Spray Gun Diagram 1 & 2 on pages 13 & 14), opening the material flow screw counter-clockwise and moving the spray gun closer or further away from the client. A little practice will enable you to master this very easy technique.

PRACTICE: Remove the cup from your spray gun. Fill it approximately half way with some water. Attach the cup to the body of the spray gun. Attach the spray gun to the air hose. Turn the turbine unit on. You will notice air is now flowing through the air cap, this is normal and correct. Position the air cap in the horizontal position, turn the solution flow screw counter clockwise approximately 1 to 1 1/2 turns. Point the spray away from yourself (and anyone else) and pull the trigger all the way back. You should see a "V" shaped mist (or triangle) called a fan pattern. Now, with the trigger depressed, slowly begin to turn the solution flow screw clockwise (closing). Notice that the fan pattern is beginning to get smaller. Now, reverse this and notice the pattern get larger. Take a large piece of cardboard and direct the pattern at the surface. Turn the solution flow screw 2 full turns and hold the spray gun approximately 4" from the surface. Pull the trigger. Observe the outline and size of the pattern. Now, turn the solution flow screw clockwise (closing). Move the spray gun an inch or two closer to the surface of the cardboard. Pull the trigger. Notice the pattern has become smaller. You can continue reducing the material flow and move the spray gun even closer to the cardboard and the pattern will continue to get smaller and smaller. Next, rotate the air cap to a diagonal position (See Spray Patterns, Pg. 4). Vary the solution flow and the distance of the spray gun from the work surface. Notice the change in pattern size. Your goal is a 4" wide spray pattern holding the gun 4" away from the surface.

Caution: Even when the turbine unit is turned off, pressure will remain in the spray cup. If you pull the trigger back, a stream of fluid will flow. To prevent accidents, turn paint flow screw clockwise until it is completely closed. The trigger is now locked in the closed position.

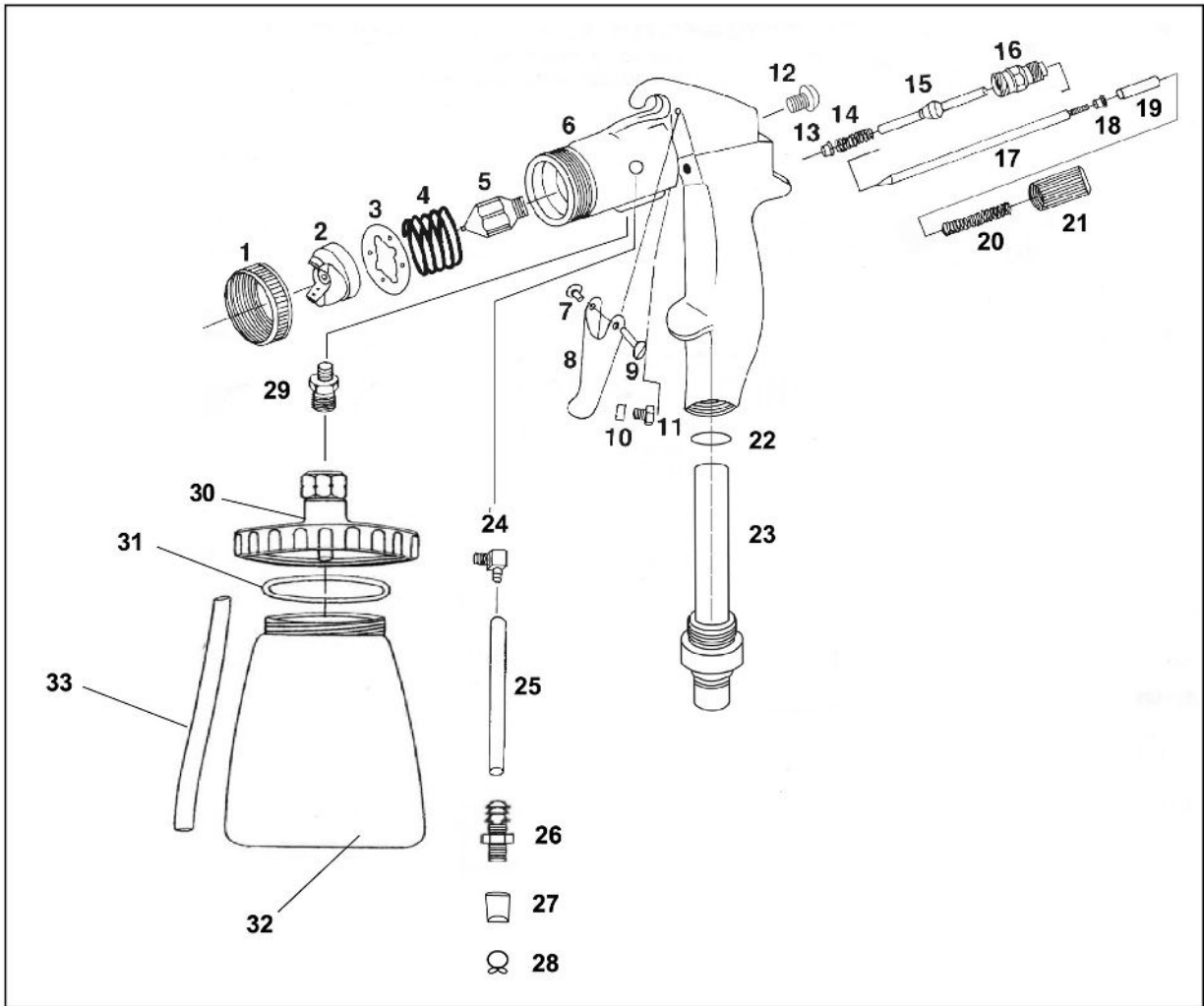
Note: It is not necessary to empty and clean your spray gun when you pause between applications. Be sure, however, to clean your spray gun thoroughly at the end of your work session. It is a bad idea to leave solution in your spray gun overnight.



SPRAY GUN MAINTENANCE AND CLEANING

1. You do not need to clean your spray gun every time you stop spraying. Either set the Spray Gun down carefully so as not to tip it over, or hang it by the hook. You should, however, clean your Spray Gun at the end of a work session or at the end of the day. It is not a good idea to leave solution in the Spray Gun over night. Also, pay careful attention in keeping the cup threads clean, this includes the threads on the main gun body as well. Dried material on the threads can cause the cup to lock onto the surface making removal difficult.
2. When you have finished spraying, pour the remainder of your solution out of the spray gun cup. Pour in 2oz of MaxiClean Spray Gun Cleaner with 2oz of hot water, Shake the spray gun gently. Wait about one minute and spray out the cleaner in the cup into a sink or on a towel.
3. If necessary, remove the Fluid tip and nozzle washer with the provided tool. **Never remove the nozzle without removing the spray gun needle first!**
4. To remove the fluid needle assembly, turn the solution adjusting screw all the way counter- (anti) clockwise until it comes out of the spray gun. Carefully remove the spring. Pull the needle assembly back towards you out of the back of the spray gun. Wipe or rinse clean.
5. Wipe all exposed areas clean again giving special attention to the cup threads.
6. Although they might not need attention every time you spray, you should be aware of two additional important parts on your spray gun. One is the cup gasket and the fluid Needle Packing . The cup gasket insures that the cup is properly sealed to the spray gun body, the cup is properly pressurized and no fluid leaks from the spray gun cup. Replace if necessary. The fluid needle packing compresses around the fluid needle assembly to prevent fluid from leaking around the needle. This is adjusted by tightening (or loosening) the needle packing screw .Be sure that this screw is not too tight as to not permit free movement of the needle assembly. Be sure that this screw is not too loose as to permit fluid to leak around the needle. Normally, this is preset at the factory and should need no adjustment. Replace fluid needle packing when it becomes impossible to prevent leaking.
7. Store your spray gun for the next use.

FOR PARTS, SERVICE OR TECHNICAL SUPPORT CONTACT



Part #	Description	Part #	Description
1	Air Cap Ring	18	Needle Lock Nut
2	Air Cap	19	Needle Cap
3	Air Cap Detent Plate	20	Needle Spring
4	Air Cap Spring	21	Fluid Adjust Knob
5	Fluid Nozzle	22	O Ring
6	Gun Body	23	Quick Coupler
7	Screw A	24	Air Feed Elbow
8	Trigger	25	Air Feed Tube
9	Screw A Stud	26	Cup Air Feed Fitting
10	Gland Nut	27	Duck Bill
11	Gland Nut Seal	28	Duck Bill Clamp
12	Screw B	29	Cup Assembly Connector
13	Spindle Housing	30	Cup Lid Assembly
14	Spindle Spring	31	Cup Gasket
15	Spindle Assembly	32	Cup
16	Spindle Adapter	33	Pick Up Tube
17	Needle		

Warranty and Technical Support

For all other technical questions please call your local distributor or MaxiMist

Technical Support: Available Monday-Friday, 8am-5pm, EST.

MaxiMist Tanning Systems
15134 Citrus Country Dr
Dade City, Fla 34653

Voice: 727 834 9435
Fax: 727 264 0629
Email: support@maximist.co

MaxiMist Spray Tanning Systems One Year Limited Warranty

Your ST302Pro Spray Gun is **WARRANTED** by **MaxiMist Tanning Systems** for a total period of **ONE YEAR** on a **PRO-RATED** Basis (see schedule below) from the **ORIGINAL** date of purchase by the **ORIGINAL PURCHASER**. Proof of purchase to be included and all **SHIPPING CHARGES** to be pre-paid.

MAXIMIST SPRAY TAN SYSTEMS, upon examination of the machine/equipment will **replace or repair** at their discretion any defects in material or workmanship.

WARRANTY SCHEDULE

First Six Months.....Parts NO CHARGE.....Labor.....NO CHARGE
Second Six Months.....Parts NO CHARGE.....Labor.....CHARGED

Labor will be CHARGED at the current hourly rate, or specified Job Rate.

This WARRANTY does NOT include: miss-use, damage, neglect, alterations, disassembled equipment or modifications, lack of maintenance, cleaning, water damage, normal wear a tear parts, electrical parts and **INCORRECT VOLTAGE CONNECTION**. This WARRANTY is in lieu of all other express warranties, any WARRANTY implied by law, including but not limited to implied warranties of merchantability or fitness, is excluded to the maximum extent permitted by law and, if not excludable, it is limited to the duration of the express Warranty. No representative or person is authorized to extend this Warranty or to create for **MAXIMIXT SPRAY TAN SYSTEMS**. Any other liability in connection with the sale of any **MAXIMIST SPRAYERS product**. **MAXIMIST SPRAY TAN SYSTEMS** shall not be liable for any consequential, incidental, or special damages of any kind directly or indirectly resulting from breach of any express or implied Warranty. Some States do allow the exclusion of limitation of incidental or consequential damages or limitations on the length of any Warranty so that the above limitations and exclusions may not apply to you; however, to the maximum extent permitted under applicable law, the only rights and remedies shall be to obtain a replacement for any defective product. This Warranty gives you specific legal rights and you may also have other rights which vary from State to State. For warranty repairs inside the United States please call 727 834 9435. All repairs must be accompanied by an RMA number from the factory. Please call first before sending any equipment back to the factory for repair.

The Easy Way to Adjust Your Spray Gun for Optimum Results

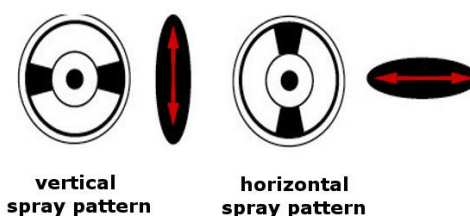
There is no magic number of “turns” rotations, or descriptions like: “ $\frac{3}{4}$ turn, half way, 4 times” to adjust your spray gun for optimal use. Every gun differs, and solution thickness will always vary from day to day. **Your goal is always a specific spray pattern width.** This will only change slightly based on the viscosity (thickness) of your tanning solution, but you should never change the desired spray pattern width output from the spray gun.

The proper way to use a Maximist spray gun is 4 inches away from the skin surface, with a 4-inch-wide/long spray pattern (at its longest point). This will give you the optimum application, while using the least amount of product (2-2.5oz per application, in two separate, back to back, coats of 1 oz. ea.) This will produce very little overspray, when the spray gun is used properly, with correct application technique.

The easiest way to achieve this is:

- Hang an unneeded white cotton bath towel over a chair, cabinet or pin it to a wall. We suggest you use this, as it will give you the best visual you will be looking for. (solution may stain towel)
- Place a few ounces of tanning solution into your cup. (3-4 oz.)
- Adjust your spray gun to the closed position by turning the flow control knob, (located on the back of the gun or the trigger) so when the trigger is pulled, no solution sprays out; we call this “at zero”. No matter which pattern selection you use (horizontal or vertical), you will always hold the spray gun 4 inches away from the towel. Slowly begin to adjust your gun (using the flow control knob to open or release the solution flow) so it begins to spray solution as you point it at the towel while pulling the trigger. Pull the trigger quickly and let go. **DO NOT MOVE YOU’RE HAND, JUST POINT AND PULL THE TRIGGER IN SHORT QUICK BURSTS IN ONE AREA.**
- You will then see a line start to develop on the towel. The line direction will depend on the direction you have your air cap set (this is on the front of your spray gun)
- It will either be a vertical or horizontal slightly elliptical line. (see below image)

Pattern width is measured from the widest point on each outside edge - side to side



- Your goal is to achieve a 4-inch-wide/long “line” on its longest length while holding the spray gun 4 inches away from the towel. Continue to open/adjust the spray gun via it’s flow adjustment knob until you have a 4-inch-wide line.



- Once you achieve a 4-inch-wide line make a long flowing pass on the towel while holding trigger in moving the spray gun as you would normally do during your application process. You should see a nice smooth, consistent 4-inch-wide spray pattern.

Holding the spray gun the proper distance away from the skin surface is crucial to correct performance. You can change distance from the surface by a few inches maximum before you begin to see the spray application result from the gun suffer. Example: A Gun correctly set at a 4-inch-wide spray pattern would have a maximum distance from the skin surface of about 6 inches. Held back farther from the surface will increase overspray, product in the air, and lessen solution coverage on the skin.

Trouble Shooting Issues:

- Solution seems to spit, sputter, or will not spray out evenly from the gun. Fix: flow knob setting is too low for the solution thickness. It is “closed” to much. It is set to close to the zero setting, please turn the knob opposite from the zero point to allow more solution flow to spray through the gun.
- Too Much overspray and fogging. Fix: flow control setting is open to wide, or to open. Or the Gun tip is too far from the skin surface. It should be a 4 by 4 pattern per above directions.
- Solution is running and dripping down the skin: Fix: Flow control knob may be open to wide, please set/test with a towel 4 by 4 per above. You also may be spraying to slowly in overall arm movement, and oversaturating the skin. Apply two thin coats of one oz. each. Do not spray back and forth over a wet area. Move quickly. It should take about 5-7 minutes to apply two full body coats back to back of 1 oz each.