

# INSTRUCTION MANUAL

(For Professional Use Only)

## SUN-MIST®

### SPRAY TANNING SYSTEM

**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.

©2009 Apollo Sprayers International, Inc.

# WARNING

## DO NOT USE EQUIPMENT BEFORE READING THIS SECTION

**A fire or explosion hazard is present when spraying flammable materials. In order to assure safe operation of your spray system, please read the following instructions carefully.**

- Always follow coating or solvent manufacturers safety instructions and warnings.
- Always spray in a well ventilated area.
- Always keep the turbine system at the maximum length of hose.
- Always wear eye protection and a respirator.
- Always store indoors, never allow unit to freeze.
- Always use original manufacturers replacement parts
- Never spray flammable materials near open flames, pilot lights or any other source of ignition.
- Never alter or modify any part of this equipment; doing so can cause equipment malfunction and/or bodily injury.
- Never attempt to clean any part of the turbine system while it is plugged in.
- **CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE TO WATER.**
- Never leave spray equipment unattended. Keep away from children or any person not familiar with spray equipment.

### GROUNDING INSTRUCTIONS

This product should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electrical shock by providing an escape wire for the electric current. This product is equipped with a cord that has a grounding wire and appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not operate unit with a damaged cord or plug. Do not pull or carry unit by the cord. Keep away from heated surfaces. Do not unplug by pulling on the cord.

### DANGER

Improper installation of the grounding plug can result in the risk of electric shock. Check with a qualified electrician or serviceman if in doubt as to whether the product is properly grounded. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician. This product is for use on a nominal 120 volt circuit and has a grounding plug similar to the one illustrated. Make sure that the turbine is connected to an outlet with the same configuration as the plug. **DO NOT USE ANY ADAPTERS WITH THIS PRODUCT.**

### USING EXTENSION CORDS

Use only a three wire extension cord with a 3-slot receptacle similar to the plug on the turbine. Make sure your extension cord is in good condition. When using an extension cord, be sure to select one that will carry a heavy enough current for the turbine system used. An undersized cord will cause a drop in the line voltage resulting in loss of power and overheating. If in doubt use the next heavier gauge. The smaller the gauge number, the heavier the wire thickness. Please use the chart below as a guide to selecting the proper size extension cord.

For length less than:	Use extension gauge:
25ft	16AWG
50ft	14AWG
100ft	12AWG
150ft	10AWG

### FIRE OR EXPLOSION HAZARD

#### FLUID SECTION - SOLVENTS

Halogenated Hydrocarbon solvents can cause an explosion when used with aluminum or galvanized components in a closed (pressurizable) fluid system (pumps, heater, filters, valves, Mist Applicators, tanks, etc.). The explosion could cause serious injury, death and/or substantial property damage. Cleaning agents, coatings, paints, etc. may contain Halogenated hydrocarbon solvents. The manufacturer of this equipment uses aluminum components that will be affected by Halogenated Hydrocarbon solvents. **DO NOT USE HALOGENATED HYDROCARBONS WITH THIS EQUIPMENT.**

#### EXPLANATION OF THE HAZARD

There are three key elements to the Halogenated Hydrocarbon (HHC) solvent hazard. These elements are:

1. The presence of HHC
2. Aluminum or galvanized parts
3. Equipment capable of withstanding pressure

When all three elements are present, the result can be an extremely violent explosion. The reaction can be sustained with very little aluminum or galvanized metal; any amount of aluminum is too much. The reaction is unpredictable. Prior use of an HHC solvent without incident (corrosion or explosion) does NOT mean that such use is safe.

**HALOGENATED SOLVENTS** – definition: Any hydrocarbon solvent containing any of the elements as listed below: Consult your material supplier to determine whether your solvent or coating contains Halogenated Hydrocarbon Solvents.

Fluorine (F) “-fluor-”  
 Bromine (Br) “-bromo-”  
 Examples (not all-inclusive):  
**FLUOROCARBON**  
**SOLVENTS:**  
 Dichlorofluoromethane  
 Trichlorofluoromethane  
**CHLORINATED SOLVENTS:**

Carbon tetrachloride  
 Chloroform  
 Ethylene Dichloride  
**BROMINATED SOLVENTS:**  
 Ethylene Dibromide  
 Methylene chlorobromide  
 Methyl bromine  
**TRICHLOROETHANE:**

Trichloroethylene  
 Monochlorotoluene  
 Chlorine (CL) “-chloro-”  
 Iodine (I) “-iodo-”  
**METHYLENE CHLORIDE OR**  
**DICHLOROMOETHANE**  
 Monochlorobenzene  
 Orthodichlorobenzene

Perchloroethylene  
**IODINATED SOLVENTS:**  
 N-butyl iodide  
 Methyl Iodide  
 Ethyl Iodide  
 Propyl iodide

## SUN-MIST® TrueHVLP™ SPRAY TANNING SYSTEM

CONGRATULATIONS!! You have just purchased one the finest HVLP spray tanning systems 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 Mist Applicators.

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 TrueHVLP™ spray tanning system.

### INSTRUCTIONS

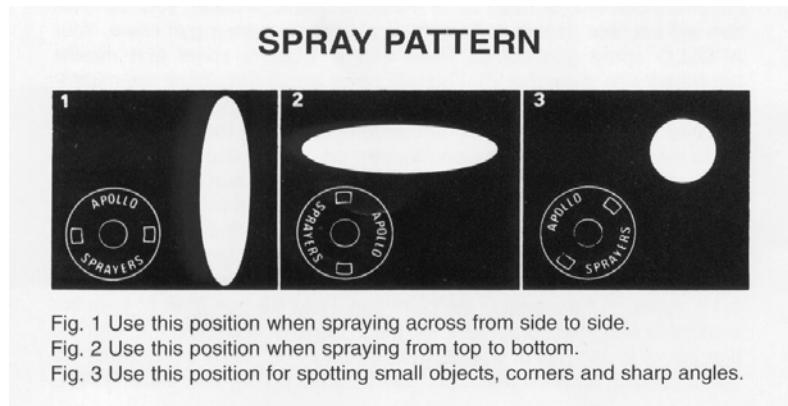
Check the contents of your box. The following are included:

Sun-Mist® HVLP Spray unit  
Mist Applicator  
Air hose  
Instruction Manual

### HOW SUN-MIST® HVLP SPRAY TANNING SYSTEM WORKS

Your Sun-Mist spray tanning system has three components: the motor unit, the air hose and the Mist Applicator. 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 Mist Applicator. Air flows through the hose to the nozzle of the specially designed Mist Applicator. 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 Sun-Mist motor unit has one air hose outlet on the side of the case and is designed to run one Mist Applicator.



Your Mist Applicator offers you many options. You can adjust (click) the air cap (#2) 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.

### PREPARING TO USE YOUR SUN-MIST® SPRAY TANNING SYSTEM

Connect the air hose to the motor unit. Pull back the spring loaded quick disconnect coupler and insert the male connector on the air hose into the motor unit connector. Release the ring. Your air hose will be locked into place. To disconnect, pull back on the connector to release the air hose. CAUTION: If you have just finished spraying, the metal coupler at the turbine end may be hot, use caution when removing the hose.

Plug the electric cord into a correctly grounded electrical outlet. Be sure the electric current is the correct voltage. If you need to use an extension cord, be sure it is at least 12 gauge wire and has a correctly grounded outlet. (240v units for use outside of the United States are often only supplied with an electric cord. A correct plug must be installed prior to use. Make sure the ground wire is properly connected).

Select a safe, well ventilated area where you will spray your client. Locate your Sun-Mist motor unit away from the area where you will be directly spraying. Do not cover or enclose the motor unit. It is important to draw cool/ambient air through the motor unit for optimum performance and motor longevity. Avoid placing the turbine in a warm environment or in direct sunlight.

## FAMILIARIZING YOURSELF WITH YOUR MIST APPLICATOR

Familiarize yourself with the controls on the Mist Applicator. There are three principal controls. The rotating air cap (#2), the material flow screw (#18) and the air cap locking ring (#1). 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. (Flow will increase when using the diagonal position and it is usually necessary to reduce the flow by adjusting the flow screw (#18). (See Diagram Spray Patterns, Pg. 3). Next, turn the material flow screw (#18) 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 Sun-Mist 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 Sun-Mist spray tanning system.

Your Sun-Mist motor unit is equipped with our new variable speed control. When you turn the motor on it will start at high speed. To lower the speed of the motor and make the unit quieter, simply rotate the knob clockwise to the desired speed. If you slow the motor too much you will notice that your Mist will not be as fine. Be careful to always have your motor speed fast enough to atomize the solution you are spraying evenly. We suggest starting with the speed ½ way and go from there. Each solution is a little different and may require slightly different speeds.

### USING YOUR MIST APPLICATOR

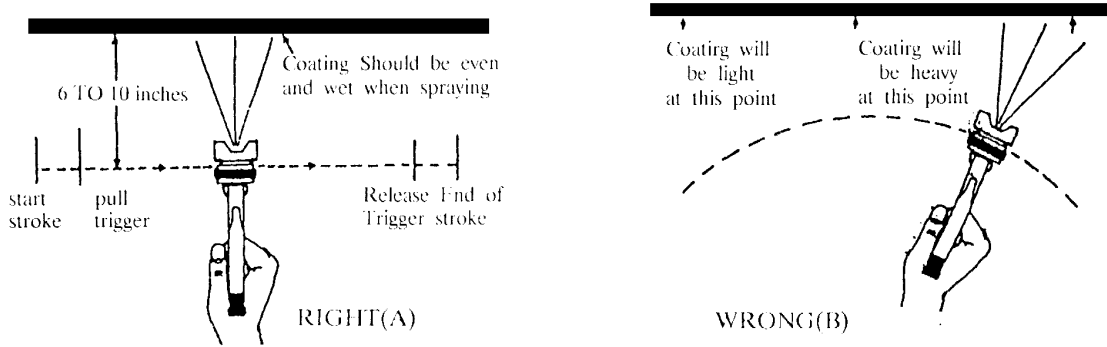
Your Sun-Mist® Mist Applicator is certified. This means your Mist Applicator only uses approximately 3psi or less. All passages and air ports are much larger than an airbrush system. If one of these air passages becomes blocked, or build up of solution starts to occur, your spray pattern will become distorted. Therefore, always keep your Mist Applicator clean. Your Sun-Mist® Mist Applicator comes fitted with a custom size tip/nozzle (#6) and needle (#15). 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 (#2) to the desired fan type (See Mist Applicator Diagram 1 & 2 on pages 13 & 14), opening the material flow screw (#18) counter-clockwise and moving the Mist Applicator 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 Mist Applicator. Fill it approximately half way with some water. Attach the cup to the body of the Mist Applicator. Attach the Mist Applicator 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 (#2) in the horizontal position, turn the solution flow screw (#18) counter clockwise approximately 1 to 1 1/2 turns. Point the Mist Applicator 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 (#18) 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 Mist Applicator approximately 6" from the surface. Pull the trigger. Observe the outline and size of the pattern. Now, turn the solution flow screw clockwise (closing). Move the Mist Applicator 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 Mist Applicator 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 Mist Applicator from the work surface. Notice the change in pattern size.

**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 (#18) 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 Mist Applicator when you pause between applications. Be sure, however, to clean your Mist Applicator thoroughly at the end of your work session. It is a bad idea to leave solution in your Mist Applicator overnight.

## PROPER SPRAY TECHNIQUE



## SUN-MIST MOTOR UNIT MAINTENANCE

The motor unit needs virtually no maintenance. The motor has sealed bearings that are pre-lubricated. No service is necessary. Periodically, the motor units air filters and pre-filters should be examined. Clean filters are critical to good performance and equipment longevity. Your Sun-Mist® Sprayer has 2 replaceable filters. Remove the two hex-head securing nuts in order to remove the filters for cleaning or replacement. Periodically wash and blow excess dust and dirt with water and an air compressor if available. Dirty filters will reduce the air being drawn through the motor, causing the unit to run abnormally hot, diminish spray performance and reduce the life of the motor. Clean and/or replace. Use the maintenance record sheet to keep track of your equipment use and make sure you change them every 50 hours. Call your local authorized dealer for genuine replacement filters. Replacing the filters with non genuine filters may void your warranty.

Motor unit recommended maintenance: Clean and/or change pre-filters and/or cartridge filters every 50 hours or when necessary. See Pg 8 for appropriate filter replacement for your model.

Mist Applicator recommended maintenance: Check: Cup gasket, nozzle gasket, gland seal, air cap holes, nozzle/needle assembly every 50 hours or when necessary. Clean or replace parts as needed. Mist Applicator maintenance kit part #A5256.

## TROUBLESHOOTING

1. Solution cup full, motor unit air is supplied to the Mist Applicator. Trigger is pulled and no solution comes out—Reason: Cup not pressurizing.

Check:

- A) Air Feed Tube/one way air valve (#25) A.5232
- B) Air Feed Connector (#8) (A.5211)
- C) Cup is screwed on tight
- D) Cup top gasket is not damaged.

2. When Mist Applicator is connected to a turbine and the turbine is on, air continually flows through the air cap even if the trigger is not pulled. Response: This is correct, “bleeder” type Mist Applicators are necessary and desirable to ensure longevity of the motor unit.

3. If you think that you are getting too much “overspray”  
Try: Moving the Mist Applicator closer to the work  
Closing down the fluid flow



RECORD OF TURBINE AND MIST APPLICATOR MAINTENANCE	
DATE	MAINTENANCE PERFORMED

Mist Applicator recommended maintenance: Check: Cup gasket, nozzle gasket, gland seal, air cap holes, nozzle/needle assembly every 50 hours or when necessary. Clean or replace parts as needed. Mist Applicator maintenance kit part #a.5256

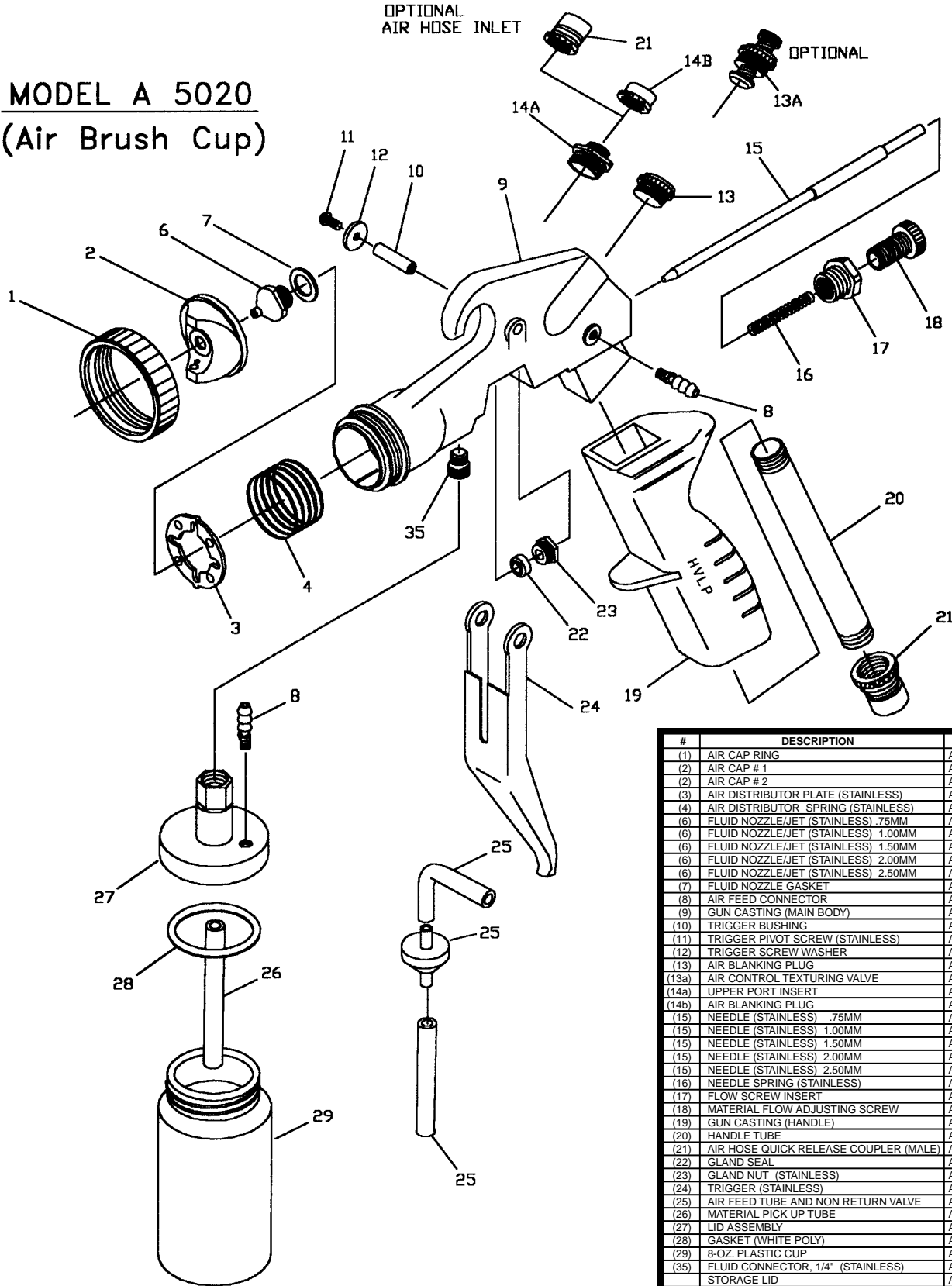
**MIST APPLICATOR MAINTENANCE AND CLEANING**

1. You do not need to clean your Mist Applicator every time you stop spraying. Either set the Mist Applicator down carefully so as not to tip it over, or hang it by the hook. You should, however, clean your Mist Applicator 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 Mist Applicator 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 Mist Applicator cup. Pour in a small amount cleaning fluid. Use a cleaner that is compatible with the solution you just sprayed (water if nothing else is available). Shake the Mist Applicator gently. Wait about one minute and spray out the cleaner in the cup.
3. If necessary, remove the Fluid tip (7) and nozzle washer (17). A standard wrench will fit the flanges on the fluid tip. Be careful not to loose or misplace the nozzle washer. Rinse with appropriate cleaner.
4. To remove the fluid needle assembly, turn the solution adjusting screw (4) all the way counter- (anti) clockwise until it comes out of the Mist Applicator. Carefully remove the spring (3). Pull the needle assembly back towards you out of the back of the Mist Applicator. 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 Mist Applicator. One is the cup gasket (11) and the fluid Needle Packing (13). The cup gasket insures that the cup is properly sealed to the Mist Applicator body, the cup is properly pressurized and no fluid leaks from the Mist Applicator cup. Replace if necessary. The fluid needle packing (13) 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 (14). 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 (13) when it becomes impossible to prevent leaking.
7. Store your Mist Applicator for the next use.

**FOR PARTS, SERVICE OR TECHNICAL SUPPORT CONTACT**

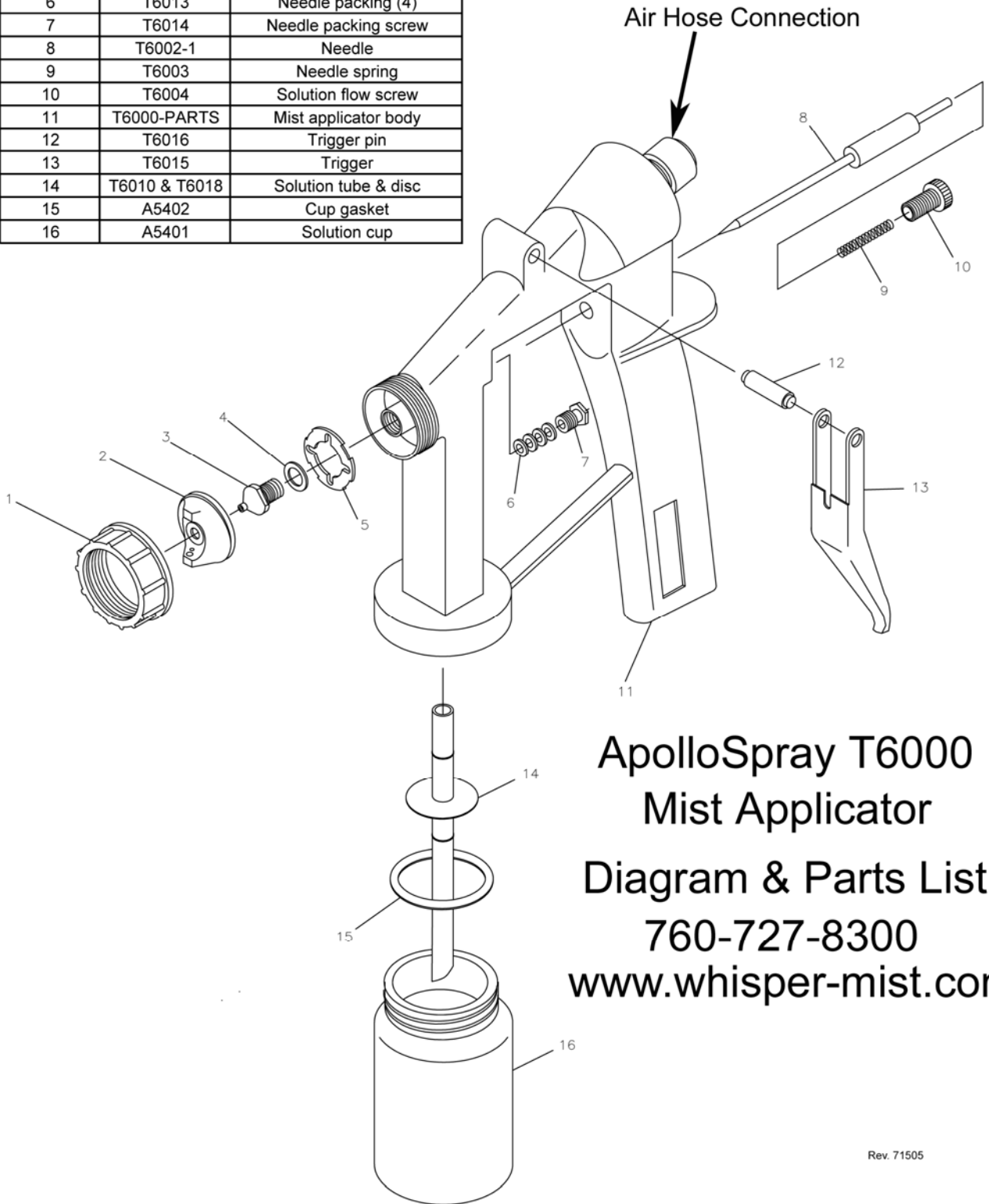


# MODEL A 5020 (Air Brush Cup)



#	DESCRIPTION	PART #
(1)	AIR CAP RING	A.5200
(2)	AIR CAP # 1	A.5201
(2)	AIR CAP # 2	A.5297
(3)	AIR DISTRIBUTOR PLATE (STAINLESS)	A.5203
(4)	AIR DISTRIBUTOR SPRING (STAINLESS)	A.5204
(6)	FLUID NOZZLE/JET (STAINLESS) .75MM	A.5206
(6)	FLUID NOZZLE/JET (STAINLESS) 1.00MM	A.5207
(6)	FLUID NOZZLE/JET (STAINLESS) 1.50MM	A.5208
(6)	FLUID NOZZLE/JET (STAINLESS) 2.00MM	A.5208-2
(6)	FLUID NOZZLE/JET (STAINLESS) 2.50MM	A.5209
(7)	FLUID NOZZLE GASKET	A.5210
(8)	AIR FEED CONNECTOR	A.5211
(9)	GUN CASTING (MAIN BODY)	A.5212
(10)	TRIGGER BUSHING	A.5213
(11)	TRIGGER PIVOT SCREW (STAINLESS)	A.5214
(12)	TRIGGER SCREW WASHER	A.5215
(13)	AIR BLANKING PLUG	A.5202
(13a)	AIR CONTROL TEXTURING VALVE	A.5257
(14a)	UPPER PORT INSERT	A.5216
(14b)	AIR BLANKING PLUG	A.5217
(15)	NEEDLE (STAINLESS) .75MM	A.5218
(15)	NEEDLE (STAINLESS) 1.00MM	A.5219
(15)	NEEDLE (STAINLESS) 1.50MM	A.5220
(15)	NEEDLE (STAINLESS) 2.00MM	A.5220-2
(15)	NEEDLE (STAINLESS) 2.50MM	A.5221
(16)	NEEDLE SPRING (STAINLESS)	A.5222
(17)	FLOW SCREW INSERT	A.5223
(18)	MATERIAL FLOW ADJUSTING SCREW	A.5224
(19)	GUN CASTING (HANDLE)	A.5225
(20)	HANDLE TUBE	A.5226L
(21)	AIR HOSE QUICK RELEASE COUPLER (MALE)	A.5227
(22)	GLAND SEAL	A.5228
(23)	GLAND NUT (STAINLESS)	A.5229
(24)	TRIGGER (STAINLESS)	A.5230
(25)	AIR FEED TUBE AND NON RETURN VALVE	A.5232
(26)	MATERIAL PICK UP TUBE	A.5403
(27)	LID ASSEMBLY	A.5404
(28)	GASKET (WHITE POLY)	A.5402
(29)	8-OZ. PLASTIC CUP	A.5401
(35)	FLUID CONNECTOR, 1/4" (STAINLESS)	A.5252
	STORAGE LID	A5400
	PACK OF (4) 8-OZ CUPS WITH LIDS	A.5405

Diagram #	Part #	Description
1	T6009	Air cap ring
2	T6008	Air cap
3	T6002-1	Nozzle
4	T6017	Nozzle gasket
5	T6006	Air distributor plate
6	T6013	Needle packing (4)
7	T6014	Needle packing screw
8	T6002-1	Needle
9	T6003	Needle spring
10	T6004	Solution flow screw
11	T6000-PARTS	Mist applicator body
12	T6016	Trigger pin
13	T6015	Trigger
14	T6010 & T6018	Solution tube & disc
15	A5402	Cup gasket
16	A5401	Solution cup



**ApolloSpray T6000**  
**Mist Applicator**  
**Diagram & Parts List**  
**760-727-8300**  
**[www.whisper-mist.com](http://www.whisper-mist.com)**

Rev. 71505

# Model 700 Turbine Parts List

January 1, 2002

Diagram #	Part #	Description	Quantity	Diagram#	Part #	Description	Quantity
1	A4710	Front plate	1	22	A4177	Hose clamp size 28-1/2"	2
2	A4029	Switch & Plate	1	23	A4222	Rubber hose, turbine exhaust	1
3	A4028	Power cord 8'	1	24	A4708	Base	1
4	A4053	Cable grommet	1	25	A4300	1/4" SAE Flat Washer, plated	14
5	A4051	Cable clamp	1	26	A4320	1/4" x 20 x 1/2" Hex Bolt, plated	14
6	A4318	6-32 x 1/2" phill pan m/s plated	4	27	A4712	Case top	1
7	A4307	6-32 Hex M/S nuts, plated	2	28	A4751	Carrying handle	1
8	A4179	Wire terminal	2	29	A4345	5/16" handle cap	2
9	A4192	Crimp-on wire connector	1	30	A4057	Filter element, 6 x 1.5" round	2
10	A4178	Ground terminal - Large Eye	1	31	A4191	Pre-filter 3/8" x 1 1/2" x 19"	2
11	A4180	Ground terminal - Small Eye Connector	1	32	A4181	Round filter plate	2
12	A4999	6" piece of grounding wire, 14 AWG	1	33	A4310	1/4" x 20 cap nut plated	4
13	A4366	1/4" x 20 x 1 3/4" hex head tap bolt, plated	4			<b>Hose Fittings</b>	
14	A4308	1/4" x 20 Hex Nuts	21	34	A2070	Brass quick connect, female	1
15	A4349	1/4" x 20 length 7/8 hex	3	35	A2163	5/8" brass hose adapter (male)	1
16	A4176	Spliced rubber gasket	1	36	A2069	S.S. hose clip 15/16" O.D.	2
17	A4373	1/4 x 20 x 2 1/2" half thread hex head bolt, plated	3	37	A2168	S.S. hose clip 7/8" O.D.	2
18	A4161	2 stage, 5.7" tangential motor	1	38	A2155	5/8" brass air hose joiner	1
19	A4755	Female Adapter	1	39	A2157	4 feet of flex hose, per foot	4
20	A4756	Male Turbine adapter	1	40	A2110	5/8" brass swivel air hose adapter (female)	1
21	A4711	Housing/cover	1	41	A2167	10 feet of air hose, per foot	10



MODEL 700

WIRING DIAGRAM