

**INSTRUCTION MANUAL  
AUTOMATIC & MANUAL SPRAY GUN WASHER  
MODEL # GW-A      PART # 325025**



- **Warranty**
- **Safety**
- **Operation**
- **Service Parts**
- **Accessory Information**
- **Registration Form**

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## INTERNATIONAL SURFACE TECHNOLOGIES INC. LIMITED WARRANTY

**IST International Surface Technologies inc.** (IST) warrants all equipment listed in this manual which is manufactured by IST and bearing its name, to be free from defects in material and workmanship on the date of sale by an authorized IST distributor to the original purchaser for use. Notwithstanding any special, extended or limited warranty published by IST will, for a period of TWENTY FOUR (24) months on the complete system, and SIXTY (60) months only on the air diaphragm pump from the date of sale, repair or replace any part of the equipment determined by IST to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with IST's written recommendations.

This warranty does not cover, and IST shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-IST component parts. Nor shall IST be liable for malfunction, damage or wear caused by the incompatibility with IST equipment with structures, accessories, equipment or materials not supplied by IST, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by IST.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized IST distributor for verification of the claimed defect. If the claimed defect is verified, IST will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser, transportation prepaid. If the inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

**THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

IST's sole obligation and the buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought forward within two (2) years of the date of sale.

**IST MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY IST.** These items sold, but not manufactured by IST (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. IST will provide the purchaser with reasonable assistance in making any claim for breach of these warranties.

### **LIMITATION OF LIABILITY**

In no event will IST be liable for indirect, incidental, special or consequential damages resulting from IST supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of IST, or otherwise.

**Report all accidents or "near misses" which involve IST products to:**

- **Technical Assistance**

**The following items are not covered under the IST warranty policy:**

- Seal or packing replacement due to normal wears.

**Defective material or workmanship is not considered normal wear.**

**SPRAY GUN WASHER SPECIFICATIONS**

<b>SPECIFICATIONS</b>	<b>U.S. UNITS</b>	<b>METRIC UNITS</b>
Weight	100 Lbs.	128 Kg
Height	58"	1,450 mm
Width	25"	625 mm
Length	26"	650 mm
Wash Basin Depth	20"	300 mm
Wash Basin Width	14"	300 mm
Solvent Capacity of Container (2)	5 Gallons	20 Liters
Weight that can be supported by work surface	25 Lbs.	8 Kg
Diameter of Vapor Chimney	3"	75 mm
Air Consumption by Suction Nozzle at 90 P.s.i. / 8 Bar		8 – 10 Nmc
Capacity of Spray Gun per Wash	2	2
Air Supply Operating Pressure	80 to 100 P.s.i.	5 – 7 Bar
Acoustic Pressure Level LpAm ISO-3746	68.4 dB(A)	68.4 dB(A)
Acoustic Power Level LpAm ISO-3746	79.2 dB(A)	79.2 dB(A)

## SAFETY AND WARNING

### GENERAL SAFETY

1. Carefully inspect the shipping carton for any signs of transport damage. The damage to the carton often indicates possibility of transport damage to the equipment inside.
2. Carefully remove your IST Solvent Recycler from the shipping carton.
3. Check your equipment immediately to ensure that it is free of transport damage. Report any transport damage to the carrier without delay for possible claim procedures. International Surface Technologies inc. is not responsible for damage to equipment after it leaves our warehouse.
4. Check the equipment list and compare it with the parts you have received. If any parts are missing, contact the supplier you purchased the equipment from.

**Before operating the IST SOLVENT RECYCLER, read this Instruction Manual completely. All IST products are engineered and manufactured to the highest performance standards and have been subjected to detail testing before shipment from the factory.**

### DANGER AND WARNING LABELS



1. Presence of flammable vapors and solvents.
2. No smoking or metal grinding nearby.
3. Keep away from open flames.
4. Wear breathing mask
5. Observe warnings at all times.
6. Read the Instruction Manual carefully.
7. Wear solvent-proof rubber gloves.
8. Wear protective eyewear before use.

## SAFETY AND WARNING (cont'd)

### WARNING

« READ ALL INSTRUCTIONS » Failure to follow the SAFETY RULES identified by a BULLET (°) symbol listed BELOW and other safety precautions may result in serious personal injury. « SAVE THESE INSTRUCTIONS »

### GENERAL SAFETY RULES

- **KEEP WORK AREA CLEAN.**
- **KEEP CHILDREN AWAY.** Do not let visitors come in contact with the equipment. All visitors should be kept away from the work area.

### PERSONAL SAFETY

- **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces, for example: pipes, radiators. Solvent resisting rubber gloves and non-skid footwear is recommended where damp or wet ground may be encountered. A ground fault circuit interrupter protected power line must be used for these conditions.
- **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in the moving parts. Wear protective hair covering to contain long hair.
- **USE SAFETY EQUIPMENT. WEAR SAFETY GOGGLES** or glasses with side shields.
- **STAY ALERT. USE YOUR COMMON SENSE.** Concentrate on what you are doing. Do not operate the unit when you are tired or under the influence of drugs.
- **DO NOT OVERREACH.** Keep proper footing and balance at all times.
- **BEFORE CONNECTING THE UNIT** to an air line outlet, be sure the pressure is the same as that specified on the nameplate of the Spray Gun Washer. An air line with pressure greater than that specified on the Spray Gun Washer can seriously injure the user – as well as damage the Spray Gun Washer. If in doubt, **DO NOT** plug in the unit. Using an air line with pressure less than the pressure specified on the nameplate is harmful to the pump.

## SAFETY AND WARNING (cont'd)

### UNIT USE AND CARE

- **DO NOT FORCE THE UNIT.** It will perform better and safer at the rate for which it was designed.
- **THE USE OF ANY OTHER ACCESSORIES** not specified in this manual may create a hazard.
- **DISCONNECT THE UNIT** when not in use, before servicing.
- **DO NOT ALTER OR MISUSE THE UNIT.** These units are precision built. Any alteration or modification not specified is misuse and may result in a dangerous situation.

Only trained repairmen should attempt (°) ALL REPAIRS, electrical or mechanical. Contact the nearest IST repair service facility. Use only IST replacement parts, any other parts may create a hazard.

### SAFETY RULES

- **THE OPERATOR MUST WEAR** protective solvent-proof rubber gloves to prevent contact between his hands and the products used for washing.
- **THE OPERATOR MUST WEAR** protective eyewear to prevent spatter from coming in contact with his eyes.
- **THE SPRAY GUN WASHER** is designed exclusively to wash spray guns and small objects.
- **STAY ALERT** at the start of the wash cycle. Make sure the solvent is not «corrosive». Immediately stop washing and replace the solvent whenever you note signs of corrosion on the worktable.
- **IF EYES COME IN CONTACT WITH SOLVENTS** rinse thoroughly with water.
- **BEFORE USING** the Spray Gun Washer, make sure that all safety devices are in perfect operating condition.
- **BECOME FAMILIAR WITH THE CONTROLS** and their functions before commencing work.
- **BE CAREFUL** when you load or unload the solvent in the unit. Make sure you do not splash or spill the contents on the workshop floor.
- **THE OPERATOR MUST PERIODICALLY** check the level of the dirty solvent contained in the collection pail to prevent it from overflowing.

## SAFETY AND WARNING (cont'd)

- **IT IS STRICTLY FORBIDDEN** to place unsuitable sized object or objects that weigh more than 18 Lbs. / 8 Kg on the work surface of the Spray Gun Washer.
- **CLEAN OR REPLACE** the mesh filter periodically.
- **DO NOT USE ELECTRICAL OR PNEUMATICAL TOOLS WITH THE UNIT. AVOID GASEOUS AREAS.** Do not operate portable electric tools in explosive atmospheres in the presence of flammable liquids or gases. Motors in these tools normally spark, and do not scrape or scratch the machine with metal objects; the sparks might ignite fumes.
- **DO NOT ALLOW FAMILIARITY GAINED FROM FREQUENT USE OF YOUR SPRAY GUN WASHER TO BECOME COMMONPLACE.** Always remember that a careless fraction of a second is sufficient to inflict severe injury.
- **DO NOT ALTER OR MISUSE THE UNIT.** Any alteration or modifications is a misuse and may result in serious personal injuries.
- **FIRE EXTINGUISHING SYSTEMS** must be installed in the same room or close to the unit in case of emergency. These appliances must be kept efficient and inspected every year by a certified person.
- **THE INSTALLATION SITE MUST PERMIT PERSONNEL TO EASILY AND QUICKLY MOVE AWAY FROM DANGER ZONES IN CASE OF AN EMERGENCY.**
- **DO NOT USE THE UNIT TO** wash or degrease objects designed to come in contact with food.
- **COMPLY WITH LAWS IN THE COUNTRY** where the Spray Gun Washer is installed regarding the use and disposal of the products used to wash clean objects.

THINK SAFETY! SAFETY IS A COMBINATION OF THE OPERATOR'S COMMON SENSE, KNOWLEDGE OF THE SAFETY AND OPERATING INSTRUCTIONS AND ALERTNESS AT ALL TIMES WHEN THE UNIT IS BEING USED.

## INTRODUCTION

This Instruction Manual provides installation, operation and maintenance instructions for the Automatic Spray Washer unit. These shall be referred to as Spray Gun Washers in the following pages. Spray Gun Washers are totally pneumatic units designed for manual washing spray guns and small parts.

It is very practical, time saving and economic for color tests and washing. The unit is supplied with one (1) pneumatic pumps that select the clean solvent from one pail and the used solvent from another pail. Both pails are located in the base of the unit. The solvent that you will use will depend on the type of paint that you are using. The manufacturer of the paint will give you the information you need regarding this.

The fumes are automatically sucked each time the operator opens the upper cover through the vapor chimney that you will connect to the outside as per local regulations. You have the option of placing an active carbon filter (part #324451). This filter can be installed onto the vapor exhaust duct, which retains contaminating gaseous particles.

This manual is an integral part of the product. It must be properly stored, kept in good condition and available for consultation at any time during the entire working life of the Spray Gun Washer. Proper washer operation, economy and durability depend on common sense and compliance with the instructions given in this manual.

## OPERATION GUIDELINES

**Read the following sections carefully. They will help you use your Spray Gun Washer correctly and help you select the correct function for your task.**

### Description of the valves

- **3** Main air supply on and off air valve (part #324530)
- **4** Fume extraction & hose cleaner air purge (part #324531)
- **6** Wash basin clean or used solvent (part #324532)
- **7** Manual wash clean and used solvent & hose cleaner (part #324533)
- **8** Manual wash spray & hose cleaner air purge (part #324534)
- **41** Wash basin security valve (part #324535)

### Description for using the Spray Gun Washer unit

- The first step in learning to use the Spray Gun Washer is to become familiar with the unit. The washer basically consists of two (2) pumps and two (2) pails of clean and used solvent. Operations are carried out via the controls placed on the top front panel which the operator can control the use:

The **main air supply** valve controls the air for the Spray Gun Washer. This valve should remain closed when not using the Spray Gun Washer.

## OPERATION GUIDELINES (cont'd)

The **fume extraction** valve has two (2) functions: opening up the fume extraction system air nozzle for vapor exhaust, and to ensure proper extraction of all harmful vapors when spraying. Solvent vapors are atomized inside the air chamber and conveyed through a 6" duct tube, automatically the vapors are sucked by a pair of air nozzles creating a vacuum inside the duct tube. 2<sup>nd</sup> function Hose cleaner air purge see hose cleaner operations steps on next page.

### Color test spraying

- Position the color test plate on the back of the working area open valve (4) and spray with the paint gun. Perform the desired color test. Fumes are inhaled into the filter (10) and solvents and paint are returned into the washing basin.

**IMPORTANT: DO NOT POUR LEFTOVER PAINT INTO THE WASHING BASIN.**

### Manual washing with clean or used solvent

- To manually wash your spray guns start by removing the cup from the spray gun, empty the cup's residues into a separate pail. Pour approximately ½ inch of used solvent (by setting the manual wash flow key (7) to the **USE SOLVENT** position) into cup. Then rinse cup (by setting the manual wash flow key (7) to the **CLEAN SOLVENT** position). You can dispose of the leftover solvent in a separate pail.
- This solvent is returned into the used solvent pail and added to the existing solvent helping to regenerate it before being recycled or disposed of.
- A brush (11) has been added to the unit to help clean parts and paint guns. The solvent will come out from the center of the brush and is controlled by the needle valve (9) picture 1.
- You can also clean parts or spray guns with valve (8). When turning this valve on, a spray nozzle will be activated helping to clean hard to reach areas.

### How to clean spray guns in the automatic washing basin

- You can wash two (2) paint guns and their accessories simultaneously. The first step is to install the plastic clip on the spray gun. Start by pulling the trigger backward and install the plastic clip (44) on the trigger. The gun trigger must remain open. If you use a suction feed gun install it on nozzle (39) see picture 4, or if you use a gravity gun insert it on nozzle (39 B).
- Place the cups upside down onto the spraying nozzle (38 B) or any other accessories to be washed.
- Close the washing basin trap door and turn on the security valve (41). Then set the washing key (6) to the **USE SOLVENT** position. After a few minutes (3 to 5) set the washing key (6) to the **CLEAN SOLVENT** position for a few seconds (5 to 10).
- Never open the cover when the unit is washing. Wait until you have put the valve (6) to the off position. Then you can turn off the security valve (41) and open the cover.

### Hose cleaner

- The unit comes with a hose cleaner. Place one (1) safety coupler attachment inside the wash basin see picture 5, #(51) this is where you connect on side of the hose, the remaining of the hose will stay inside the wash basin.

How to clean the hose:

- Open valve (7) to the used solvent side and let it clean for a few minutes.
- Turn valve (7) to the clean side for 10 to 20 seconds to let clean solvent drain through the hose completely.
- Finally, open valve (4) to the air purge side. This valve will remove all the solvents left inside the hose. It will take approximately 10 seconds to dry the hose. The hose is now ready to be re-used.

## OPERATION GUIDELINES (cont'd)

### Water wash

- Spray guns can also be washed with water. In this case, however, the water must be demineralized and have special additives to prevent rust on the spray guns and the spray gun washer itself.

### In case of inadequate aspiration

- Check the air inlet and the compressed air pressure gauge.
- Clean the air filter (1)
- Clean or replace the paint filter (10)
- Check and clean the evacuation nozzles located at the base of the duct.
- Check that the vapors evacuation duct is perfectly vertical for at least 6 feet or 2 meters.

### Solvent transfer system

- When the solvent container in the collecting pail has been used for several washings, it has to be transferred into the solvent recycler to be recycled. **Open the loading valve** (part #324536) located on the recycler make sure the hose and fittings are installed in the back of both units. The pump will transfer the used solvent from the gun washer pail to the recycler. Stop when the solvent level in the boiler is about 2" inch below the bag-retaining ring. **Do not overfill.**

For instructions pertaining to the recycling of solvent refer to the recycler Instruction Manual.

When the gun washer pail becomes empty, exchange it with the one in the recycler compartment.

Starting the distillation cycle will refill the pail again and again.

## Identification of the Automatic Spray Gun Washer

Every spray gun washer has an identification plate that indicates:

- Manufacturer brand
- Manufacturer name and address
- Spray washer model and serial number

Information on this identification plate must always be specified when asking for service and/or spare parts.

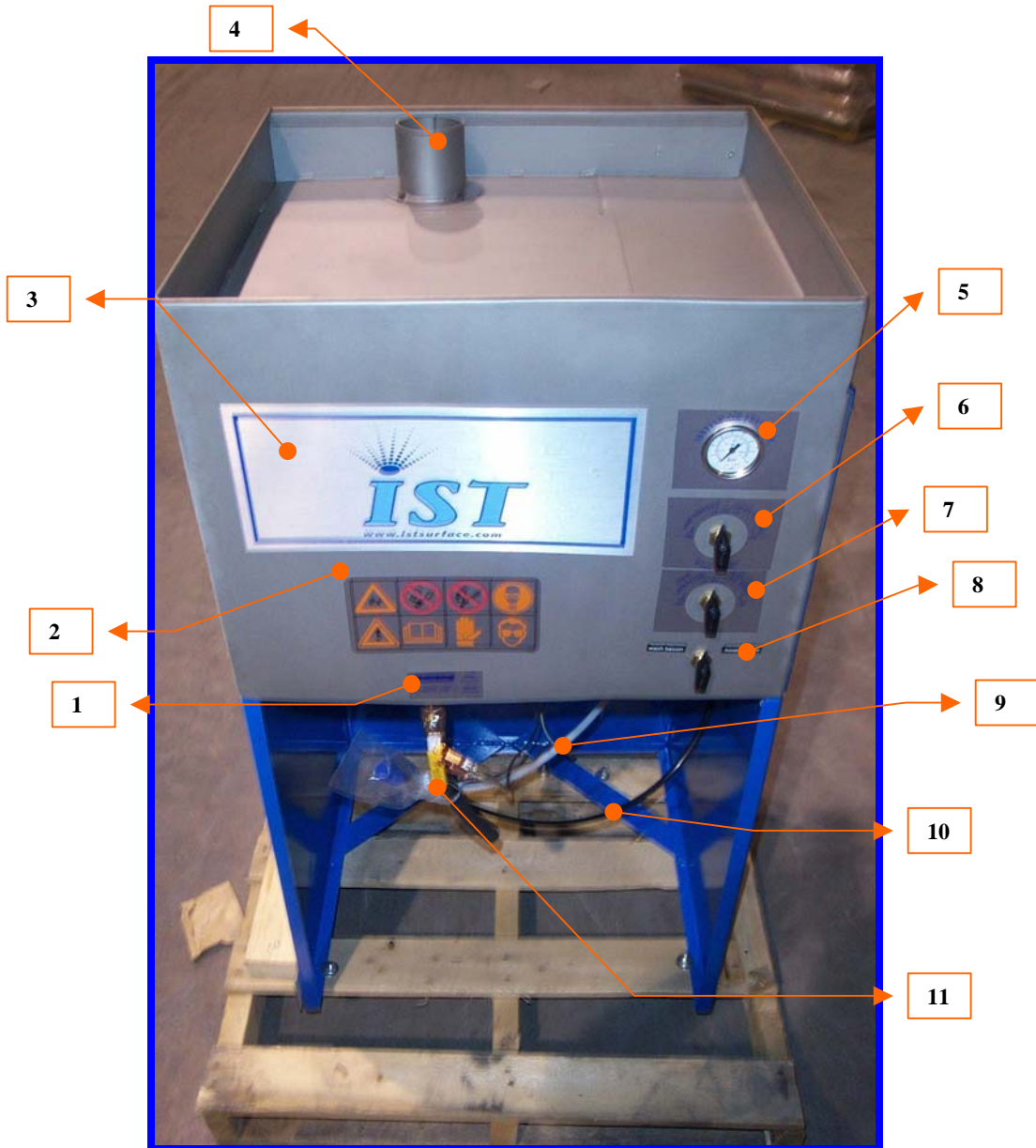
## OPERATION GUIDELINES (cont'd)

### Periodical check and maintenance

Please follow the rules and regulations listed below to safely maintain the Spray Gun Washer:

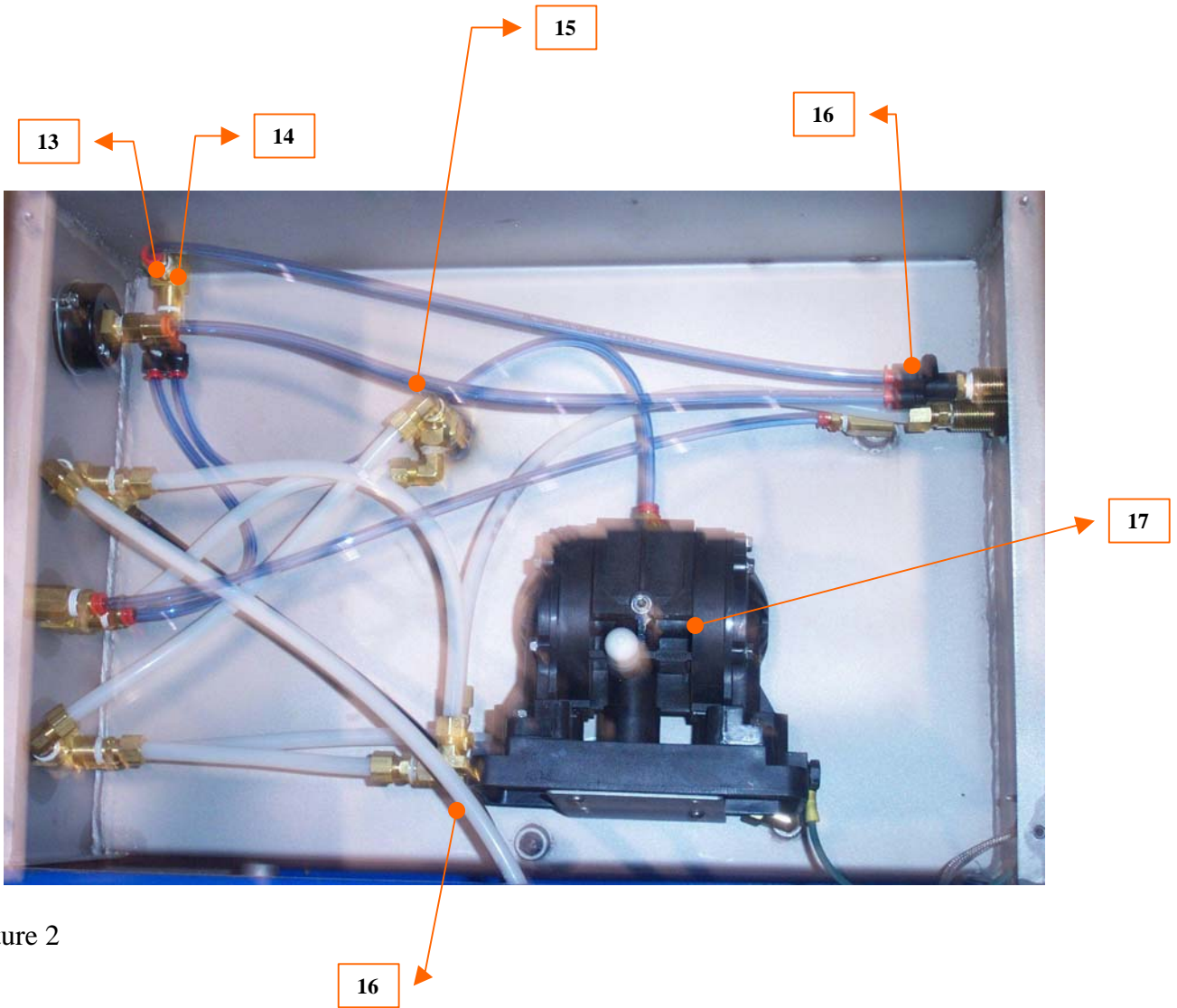
- Periodically make sure that safety devices are complete and efficient.
- Periodically replace the paint filter.
- Periodically clean the working surface and the cover from any eventual deposits.
- It is strictly forbidden to remove or tamper with safety devices.
- According to the instructions given in this manual, only qualified and specialized personnel must perform maintenance on the Spray Gun Washer.
- Disconnect the compressed air supply when it is necessary to repair or perform maintenance on the appliance.
- Maintenance must be performed carefully, following the instructions given in this manual for replacing damaged or worn parts.
- The symbolic labels attached to the Spray Gun Washer give clear guidelines for preventing accidents. These labels must always be kept clean and immediately replaced if they are even partially removed or damaged. It is strictly forbidden to operate the Spray Gun Washer when even only one of these symbolic labels is missing from the point where the Manufacturer placed it.
- Always use original spare parts during repair and maintenance.

**SCHEMATIC OF UNIT (Picture #1)**



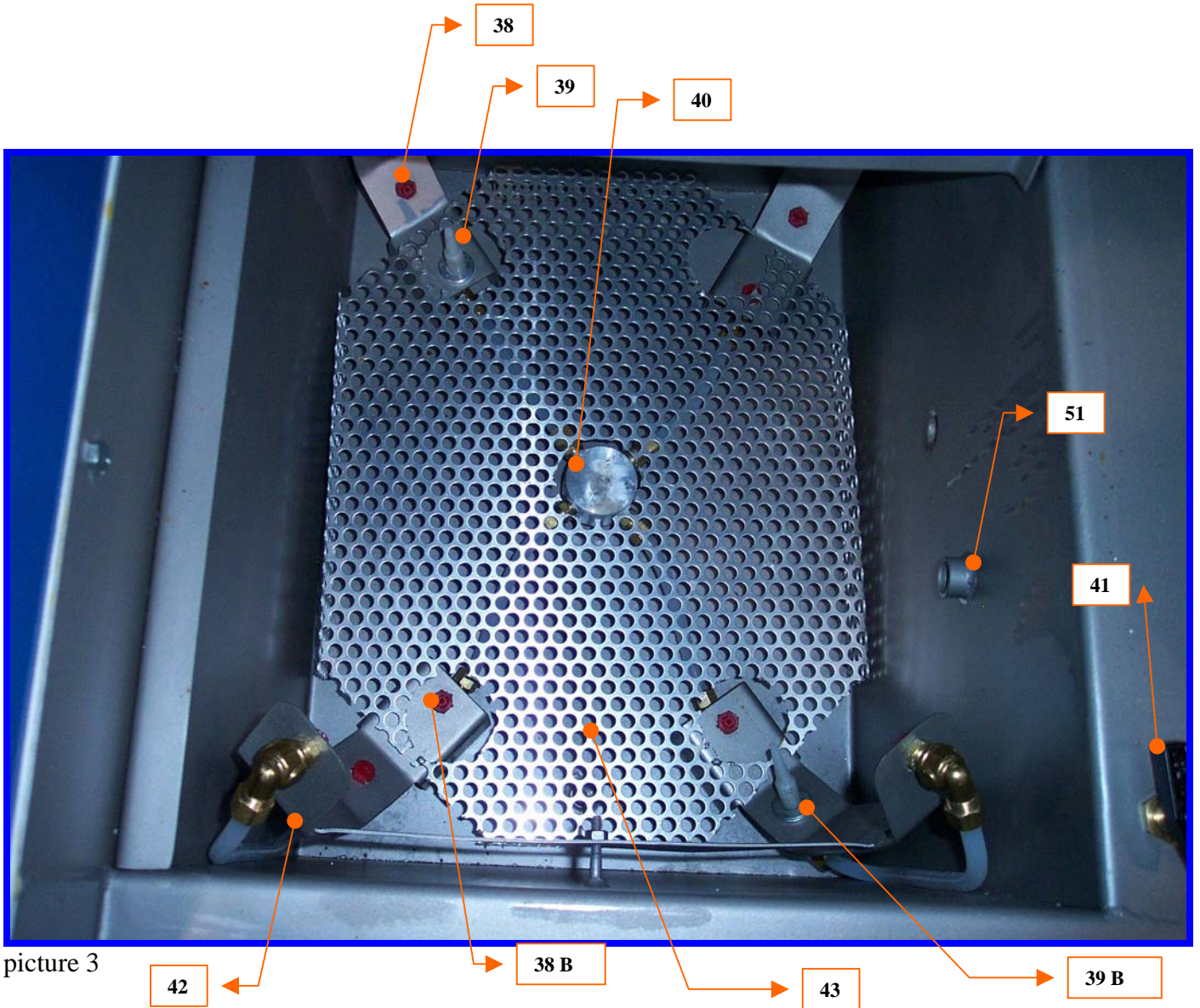
Picture 1

**SCHEMATIC OF UNIT (Picture # 2)**



picture 2

**SCHEMATIC OF UNIT (Picture # 3)**



**PARTS DESCRIPTION**

<b>INDEX</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
1	324562	Air Regulator	1
2	324014	Air Gauge	1
3	324530	Main Air on / off valve	1
4	324531	Fumes extractor and air purge valve	1
5		Fume Exhaust 6"	1
6	324532	Wash Basin clean / used solvent valve	1
7	324533	Manual wash and hose cleaner clean and used solvent	1
8	324534	Manual wash spray valve	1
9	324556	Brush flow regulation valve	1
10	324588	Paint filter	1
11	324611	Hose and brush complete	1
12		Clean and used solvent sticker	1
13		IST sticker	1
14		Clean solvent container	1
15		Used solvent container	1
16		½" ball valve	1
17	324605	Air Blow Gun	1
18	323130	Compression fitting ¼" npt x 3/8"	5
19	324552	2 way control valve	1
20	323131	90° Compression fitting ¼" npt x 3/8"	12
21	324547	3 way control valve	1
22		Street elbow ¼"	2
23	324547	3 way control valve	1
24		Brass ¼" cross	2
25	324547	3 way control valve	1
26	324557	Push in fitting ¼"	3
27	324552	2 way control valve	1
28	324560	90° Push in fitting ¼"	4
29		Push in fitting ¼ FNPT x ¼	1
30		Used solvent outlet plug	1
31	324549	Used solvent pump	1
32	324584	Push in fitting 'T' ¼"	1
33	324549	Clean solvent pump	1
34	324632	Air inlet	1
35	324554	Spray nozzle	1
36	323008	Air exhaust	1
37	324587	Back grill	1
38	324554	Spray nozzles	12
39	324589	Spray nozzle long	2
40	320002	Spray manifold	1
41	324552	Safety valve	1
42	324577	Spray system complet	1
43		Wash basin grill	1
44	324590	Plastic clip	2

**PARTS DESCRIPTION (cont'd)**

<b>INDEX</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
45	324624	Strainer	2
46	323078	Ground wire and clip kit	1
47	323160	Paint hose ½	2
48	323163	Hose barb fitting	
49	324512	Nylon tube clear	
50	324514	Nylon tube black	
51		Hose cleaner outlet	
	331129	Sticker kit complet	
	324450	Charcoal filter	Option
	324450-D	Charcoal replacment	Option

**WARRANTY INFORMATION / TECHNICAL ASSISTANCE**

For more information, prices or technical assistance,  
contact your local IST distributor or call / fax our  
Consumer Information Numbers:

Tel.: (450) 629-6678

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