

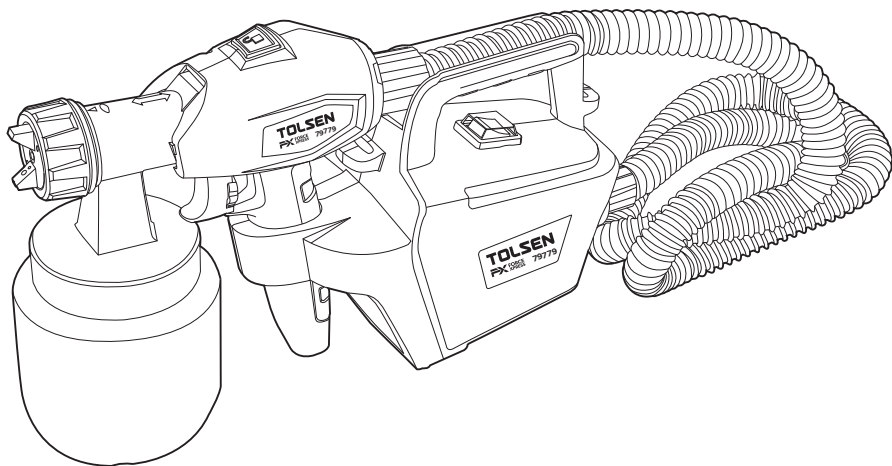
TOLSEN FORCE XPRESS

79779

HVLP FLOOR BASED SPRAY GUN

INSTRUCTION MANUAL

5.5A 650W



SAVE THIS MANUAL !

You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

IMPORTANT SAFETY INFORMATION

Instructions pertaining to a risk of fire, electric shock, or injury to persons the warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

WARNING!

When using tools, basic precautions should always be followed, including the following:

NOTICE

Clean the spray gun immediately after every use. Delayed or inadequate cleaning will permanently clog the spray gun. Latex paint hardens quickly and permanently inside spray gun.

Work area safety

1. Keep the work area clean and well lighted. Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.
2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
3. Keep bystanders, children, and visitors away while operating the tool. Distractions are able to result in the loss of control of the tool.

Electrical safety

1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a gfcI reduces the risk of electric shock.

Personal safety

1. Stay alert. Watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool increases the risk of injury to persons.
2. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair increases the risk of injury to persons as a result of being caught in moving parts.
3. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
4. Use safety equipment. Wear heavy-duty work gloves and a NIOSH-approved respirator during use. Non-skid safety shoes and a hard hat must be used for the applicable conditions.
5. Always wear eye protection. Wear ANSI-approved safety goggles.



Tool Use and Care

1. Do not force the tool. Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which the tool is designed.
2. Unplug the tool before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool unintentionally. Unplug the tool, safely discharge any residual pressure, and release the trigger before leaving the work area.
3. Store the tool when it is idle out of reach of children and other untrained persons. A tool is dangerous in the hands of untrained users.
4. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
5. Use only accessories that are identified by the manufacturer for the specific tool model. Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.

Service

- a. Tool service must be performed only by qualified repair personnel.
- b. When servicing a tool, use only identical replacement parts. use only authorized parts.
- c. use only lubricants supplied with the tool or specified by the manufacturer.

Specific Safety Instructions

1. To reduce the risk of electric shock, do not expose to rain. Store indoors.
2. Risk of Explosion – Do not spray flammable liquids.
3. Do not direct spray at people or animals.
4. Read all of the information concerning coating products and cleaning solvents. Do not use chlorinated solvents (e.g. 1-1-1 trichloroethylene and dichloromethane, also known as methylene chloride) to clean spray guns. Many spray guns contain aluminum, which reacts strongly to chlorinated solvents. Contact the solvent or coating manufacturer as needed regarding potential chemical reactions.
5. Risk of injection–Do not point spray gun at any person or any part of the body. In case of skin injection, seek medical attention immediately.
6. Spraying hazardous materials may result in serious injury or death. Do not spray pesticide, acid, corrosive material, fertilizer, or toxic chemicals.
7. Paints and solvents may be harmful or fatal if swallowed or inhaled. Avoid prolonged skin contact with solvents or paints as they will irritate skin. After any contact, immediately wash off exposed area with hot, soapy water.
8. Attach all accessories properly to the tool before plugging in the tool. A loose accessory may detach or break during operation.
9. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Tolsen Tools for a replacement.
10. Avoid unintentional starting. Prepare to begin work before turning on the tool.
11. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
12. This product is not a toy. Keep it out of reach of children.
13. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should: • Avoid operating alone. • Do not use with power switch locked on. • Properly maintain and inspect to avoid electrical shock. • Properly ground power cord. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
14. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



SAVE THESE INSTRUCTIONS.


SPECIFICATIONS AND SETUP

NOTE! Clean the Spray Gun IMMEDIATELY after EVERY use. Delayed or inadequate cleaning will permanently clog the Spray Gun. Latex paint hardens quickly and permanently inside Spray Gun.

Specifications

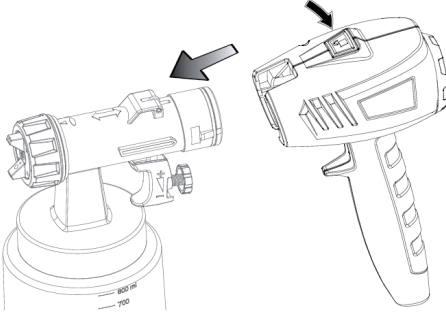
Electrical Rating	110-120V~60Hz, 5.5A, 650W
Cup Capacity	800ml
Max. Flow	800ml/min
Max. viscosity	60din/sec
Nozzle	Φ1.8/2.6mm

Set-up: Before use

 Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product

Assembly

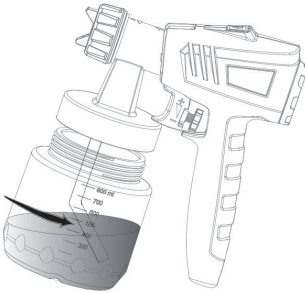
1. Line up arrow on Spray Gun Body to arrow on Air Compressor.



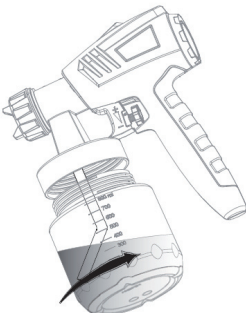
2. Push Spray Gun Body forward until it clicks to attach Air Compress and Spray Gun Body together

Suction Tube position

Normal Spraying - Suction Tube angled forward.



Upward Spraying - Suction Tube angled backward.





Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Inspect tool before use, looking for damaged, loose, and missing parts. If any problems are found, do not use tool until repaired. Damaged or missing parts can increase risk of electric shock.

WORK PIECE AND WORK AREA SET UP

Designate a work area that is clean and well lit. The work area must not allow access by children or pets to prevent distraction and injury.

Spray Gun Setup and Adjustment (Material preparation and Filling)



RISK OF EXPLOSION -
DO NOT SPRAY FLAMMABLE LIQUIDS.

Note: This Spray Gun can only be used for spraying water based or oil-based low viscosity paints, stains and varnishes.

IMPORTANT! Before THINNING, check the viscosity of FLUID.

1. Carefully strain the material through a paint strainer or a piece of cheesecloth.
2. Fully submerge the included Viscosity Cup into the material.
3. Lift the Cup out of the material and time how many seconds it takes for it to completely run out of the cup.



4. Refer to Viscosity Chart for recommended times for different materials.

Material	Runout Time (seconds)
Oil enamel	25-45
Oil based primer	30-50
Varnish	20-60
Lacquer / lacquer sanding sealer	25-40

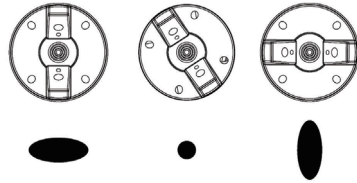
Note: Proper material mixture is essential. Follow the manufacturer's directions for thinning instructions.

Most materials will spray easily if they are thinned properly.

5. If necessary, thin the material according to manufacturer's directions and mix thoroughly.
6. Check viscosity. Thin and check until proper viscosity is achieved.
7. Replace the Cup.

Fan pattern

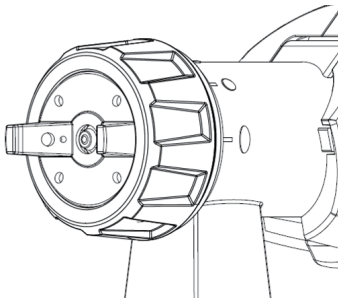
1. Loosen Lock Knob.
2. Turn Air Cap until desired pattern is selected.
3. Tighten Lock Knob.



Test Spray

WARNING! Damaged or missing parts can increase risk of electric shock. Do not operate Sprayer with damaged or missing parts.

1. Plug the Spray Gun into an electrical outlet.
2. Spray on piece of scrap material in short bursts, then check consistency.
3. Adjust the Fluid Control Knob until proper flow is achieved.



Too Coarse
(Close
Knob)



Correct



Too Fine
(Open
Knob)

Spraying Technique

IMPORTANT Proper spraying technique is ESSENTIAL to achieve good results.

1. Keep the Spray Gun upright and at a right angle to the workpiece - See Figure B.

Move your arm, not just your wrist. Point gun directly towards the surface and maintain an even, steady distance and speed.

NOTICE: Do not stop when spraying. Spraying materials will start to set and dry as soon as they come in contact with the air.

2. Depress Trigger fully and move Spray Gun in parallel strokes to the work piece.

3. Keep the distance from the work piece between 2" and 12".

5. To avoid paint build up:

- Apply two thin coats rather than one thick coat. Overlap 1/3 to 1/2 on second coat.
- Start moving the Spray Gun before fully depressing Trigger.
- Fully depress Trigger before contacting the work piece.
- When finished with the stroke, release the Trigger while still moving the Spray Gun and after passing the work piece - see Figure C.

Note: Doing this will produce a smoother finish. Do not stop moving the Spray Gun while spraying. If the Spray Gun stops even briefly while spraying the paint will build up and run down the work piece.

Note: The stroke speed and Fluid Control Knob adjustment will determine how much paint is being applied.

6. Keep Cup filled half-way full to prevent spattering.

7. To prevent accidents, after use, release Trigger, unplug the tool, safely discharge any residual air pressure, and release Trigger again.

8. Clean the Spray Gun and Cup IMMEDIATELY after EVERY use and when it will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog the Spray Gun.

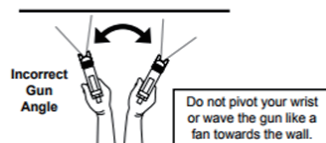
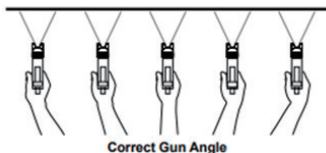


Figure B: Spray Gun Angle - top view

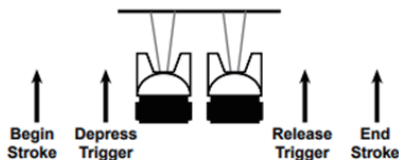


Figure C: Paint Stroke Triggering - top view

Cleaning



RISK OF EXPLOSION - DO NOT SPRAY FLAMMABLE LIQUIDS.

- a. Follow solvent manufacturer's clean up instructions and safety precautions.
- b. If collecting flushed solvents in metal container, transfer to nonmetal container, and flush metal container.
- c. Work far away from any ignition sources in a vapor free area.
- d. Keep class ABC fire extinguisher nearby.

Solvent Selection

Follow the paint and solvent manufacturer's recommendations for cleaning, solvent type, and disposal.

After Every use

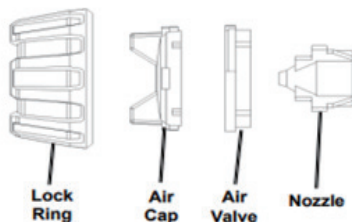
NOTICE: Do not immerse Air Compressor in solvent.

1. Unplug the Spray Gun from its electrical outlet.
2. Use solvent recommended by paint manufacturer.
3. Designate a container for spent solvent.
4. Separate Spray Gun from Air Compressor. Store Air Compressor away from cleaning area.
5. Remove Cup. Carefully scrape paint out of Cup and dispose of excess paint properly.
6. Fill Cup 1/4 to 1/2 full with solvent (sold separately) . Replace Cup, then shake Spray Gun for several seconds.
7. Remove Cup, pour solvent into spent solvent container and wipe away any paint residue from Cup with clean cloth.
8. Fill Cup 1/4 to 1/2 full with solvent. Replace Cup.
9. Plug the Spray Gun into an electrical outlet.
10. Point Spray Gun at interior side of spent solvent container. Depress Trigger and slightly shake Spray Gun while spraying solvent into the container. Once the Cup is empty, repeat the process until the solvent comes out clean.
11. Unplug the Spray Gun from its electrical outlet.
12. Point the Spray Gun into the spent solvent container and depress the Trigger again to make sure no air remains.
13. Remove Cup and Suction Tube.
14. Remove Lock Ring, Air Cap, Air Valve and Nozzle.
15. Inspect parts and soak in solvent as necessary. Use brushes and toothpicks (sold separately) to remove any paint.

NOTE: To prevent damage, do not use metal objects to clean parts.

16. Wipe down Spray Gun Body with a clean cloth and solvent.
17. Make sure all parts are dry and free from residual paint, then reassemble Spray Gun.

NOTICE: Do not use any kind of lubricant. The lubricant will mix with paint, causing poor results.



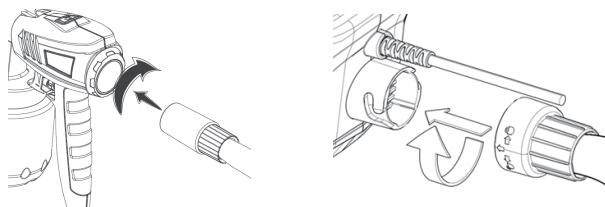
Spent Solvent Disposal

After cleaning, dispose of spent solvent according to the solvent manufacturer's directions and local hazardous waste standards.

Start-up

Before connecting to the mains supply, be sure that the supply voltage is identical with the value given on the rating plate.

Mounting air hose. Insert the air hose coupler tightly in the connections on the machine and the spray gun .



User-Maintenance Instructions



Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY: Detach the air supply and safely discharge any residual air pressure in the tool before performing any inspection, maintenance, or cleaning procedures. **TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:** Do not use damaged equipment. If abnormal noise, vibration, or leaking air occurs, have the problem corrected before further use.

Inspection

Note: These procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the air-operated tool.

BEFORE EACH USE, inspect the general condition of the tool. Check for:

- loose screws,
- misalignment or binding of moving parts,
- clogged nozzle or fluid tip,
- cracked or broken parts, and
- any other condition that may affect its safe operation.

Storage

Store in a dry, secure area out of reach of children.






Air Filter Maintenance

1. Remove four screws on back of Spray Gun.
2. Remove housing and Air Filter.
3. Wash filter in warm water and mild detergents several times. Rinse. Squeeze out excess water and allow it to dry completely.
4. Install cleaned filter and replace housing and screws.

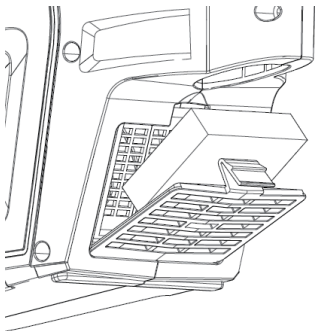
TROUBLESHOOTING

Troubleshooting - Spray pattern Diagnosis

Note: The drawings on the left below resemble symptoms of spray pattern problems. Refer to the accompanying possible causes and likely solutions to the right.

problem	possible causes	Likely Solutions
Heavy center pattern 	1. Fluid Control Knob needs adjustment. 2. The paint is too thick.	1. Adjust Fluid Control Knob. 2. Thin paint according to the manufacturer's instructions.
Light center pattern 	1. Fluid Control Knob needs adjustment. 2. Dried paint on Nozzle.	1. Adjust Fluid Control Knob. 2. Use a nonmetallic point to clean Nozzle.
Heavy top/bottom pattern 	1. Air Cap plugged. 2. Lock Ring loose. 3. Dried paint on Nozzle.	1. Clean Air Cap. 2. Tighten Lock Ring. 3. Use a nonmetallic point to clean Nozzle.
Pattern on right or left only 	Dried paint or debris on Nozzle.	Use a nonmetallic point to clean Nozzle.
Jerky or Fluttering Spray 	1. Loose or damaged Air Cap. 2. Paint level low. 3. Cup and/or Lid loose. 4. Clogged Check Valve.	1. Tighten Air Cap. 2. Refill paint Cup. 3. Tighten Cup and/or Lid. 4. Clean Check Valve.

*Change the air filter if it is soiled

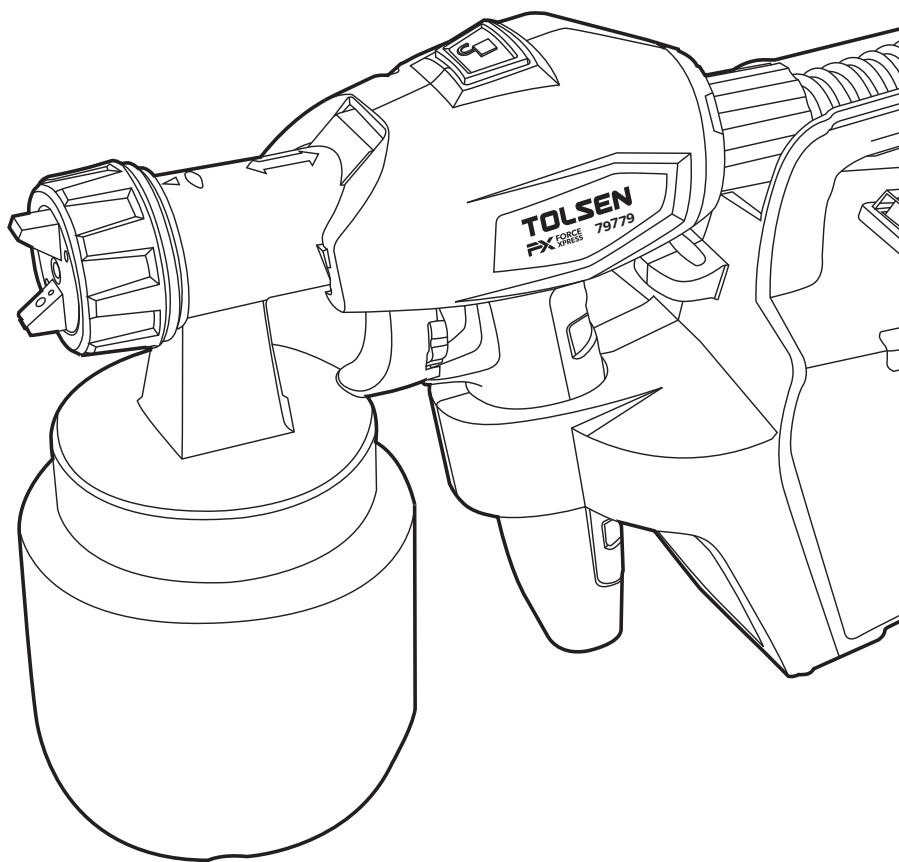


General Troubleshooting Chart

problem	possible causes	Likely Solutions
No coating material emerges from the nozzle	Nozzle clogged Feed tube clogged Material volume setting turned too far to the downside(-) Feed tube loose No pressure build-up in container Viscosity of coating material too high	Clean Clean Turn to the upside (+) Insert Tighten container Thin the paint
Coating material drips from the nozzle	Nozzle loose Nozzle worn Coating material assembly at air cap, nozzle or needle	Tighten nozzle Change nozzle Clean
Atomization too coarse	Viscosity of coating material too high Material volume too large Nozzle contaminated Air filter heavily soiled Too little pressure build-up in container	Thin Turn material volume adjusting screw to the downside (-) Clean Change Tighten container

Please read the following carefully

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