USER MANUAL

5070 BOTTOM FEED SPRAY GUN
5175G GRAVITY FEED SPRAY GUN

THE PERFECT FINISH STARTS WITH

FUJISPRAY® SYSTEMS

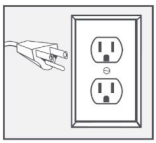
TABLE OF CONTENTS

SAFETY PRECAUTIONS

Please read these instructions before using the equipment.

Grounding

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.



This appliance is for use on a nominal 120-volt circuit and has grounding attachment plug that looks like the plug illustrated. Make sure that the appliance is connected to an outlet having the same configuration as the plug.

Please note: For UK, Australia, Asia etc. your voltage will be 220-240v. Check the label on the base of the turbine to ensure your unit is at the correct voltage for your location.

Electric Shock Hazard

Improper connection of the equipment grounding conductor can result in the risk of electric shock.

- Check with a qualified electrician or service-person if you are in doubt as to whether the outlet is properly grounded.
- Use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that accepts the plug on the product.
- An undersized cord results in a drop in line voltage and loss of power and overheating.
- Do not modify the plug provided with the appliance. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.
- To reduce the risk of electric shock or injury, do not expose to rain.
- Never allow unit to freeze.
- Always store the unit inside in a dry location. Store on the floor if in a basement setting.
- The operator must wear shoes and the floor must not be wet.

Toxic Fluid or Fumes Hazard

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

- Read MSDS (Material Safety Data Sheet) to know the specific hazards of the fluids you are using.
- Always wear appropriate gloves and eye protection.
- Always wear a respirator. Read all instructions of the respirator to ensure that it will provide the necessary protection against the inhalation of harmful vapors. Also check with the local jurisdiction.
- Paint, solvents, insecticides and other materials may be harmful if inhaled.
- Store hazardous fluid in approved containers and dispose of it according to applicable guideline.
- Do not stop or deflect fluid leaks with your hand or body.

Fire and Explosion Hazard

Equipment must not be used in an area contaminated by volatile or flammable materials. This could ignite the contaminants causing a dangerous explosion.

- Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
- Never use 1,1,1-Trichloroethane, Methylene Chloride, other Halogenated Hydrocarbon solvents or fluids containing such solvents in equipment with aluminum wetted parts. Such use could result in a serious chemical reaction, with the possibility of explosion. Consult your fluid suppliers to ensure that the fluids being used are compatible with aluminum parts.
- Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area.
- Do not spray the turbine.
- Do not smoke in the spray area.
- Do not operate light switches, engines, or similar spark producing products in the spray area.
- Keep the spray area clean and free of flammable materials.
- Fire extinguisher equipment should be present and working.
- Turn off and disconnect power cord before servicing equipment.
- Ensure ground prongs are intact on sprayer and extension cords.

Equipment Misuse Hazard

Misuse of equipment can cause serious injury or death.

- Never aim the spray gun at another person or animal. In the event of injury, seek expert medical advice immediately.
- Do not operate or spray near children. Keep children away from equipment at all times.
- Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
- Stay alert and watch what you are doing.
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not kink or over-bend the hose.
- Do not use the hose as a strength member to pull or lift the equipment.
- Do not cover turbine case as this will restrict air to the intake and result to overheating and premature failure of the motor.
- Do not carry turbine while spraying.
- Check the hose, hose connectors and power cord daily. Any worn or damaged parts should be replaced immediately.
- Use only genuine Fuji Spray® replacement parts.
- It is normal for the turbine air outlet (manifold) to become hot during use, please allow your Fuji Spray® turbine to cool for a few minutes before removing the hose from the turbine manifold.

CA PROP 65

PROP 65 WARNING FOR CALIFORNIA RESIDENTS

WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

GETTING STARTED

The information in this user manual focuses on the entire spray system. For turbine related content, see pages 14-15.

To clean out any impurities that may have accumulated during assembly or shipping, it is recommended spraying a small quantity of clean paint thinner through the spray gun, or water if you will be spraying waterborne paints. Before tackling any serious spraying, it is also recommended experimenting with the spray gun on a scrap piece of material (i.e. paper, cardboard, wood, etc.) to become familiar with all the controls.

Hose Connection

Connect the hex nut at the end of the hose (female connector) to the turbine air outlet. **Tighten this nut by hand. Do not use a wrench. Overturning could cause the internal manifold to rotate and break the internal seal to the motor.** A male quick connect coupler (#2046M) is available as an accessory for the connection to the turbine.

To connect air hose to the spray gun, pull back on the black rubber dimples around the quick connect coupler (#2046) and slide into the hose connector (#5229) at the base of the handle of the spray gun. A "clicking" sound will indicate it is securely attached.

Whip Hose Connection (#2049F)

The Fuji Spray® whip hose accessory (not included with 3 or 4-stage spray systems) is a 6ft extension hose that is to be installed at the end of the existing 25ft air hose included with your system. It is very flexible and lightweight, allowing optimal maneuverability of the spray gun, and reduced fatigue of the arm and wrist when spraying for extended periods of time.

To install the 6ft whip hose:

1. Remove air control valve (#2032) and quick connect coupler (#2046) from the end of the 25ft air hose
2. Connect the 6ft whip hose (#2049F) to the end of the 25ft air hose. The other end of the 25ft air hose must be connected to the turbine
3. Attach air control valve (#2032) and quick connect coupler (#2046) to the other end of the 6ft whip hose (#2049F)

WARNING: Do not connect the whip hose directly to the turbine.

Air Control Valve

The air control valve (#2032) is located on the air hose next to the brass quick connect (#2046). It provides a means of controlling the air flow to the spray gun. It offers control when in need of reducing bounce-back and overspray. It is important to understand that the air control valve (#2032) should be the last adjustment made when dialing in the settings on the spray gun.

Users should consider the following adjustments before changing the setting on the air control valve:

1. Dilute the paint (if applicable)
2. Adjust the shape and size of the spray pattern
3. Adjust the flow of paint through the gun

After performing these operations, you should spray a few passes onto a test piece. This will allow you to determine if the paint atomizes correctly. Once the spray gun is properly atomizing with full air, experiment with turning the air down until bounce-back is reduced to a minimum. However, if the result is orange peel, return to your original air setting.

Plastic Diaphragm (Bottom Feed Spray Gun)

The 1 qt. pressurized cup (#2095) has a plastic diaphragm (#2096). This diaphragm prevents paint from entering the pressure tube (#2024).

The small air hole in the diaphragm should not be placed directly below the air hole in the nipple (#2304). Position the diaphragm hole to the rear of the cup assembly (#2095).

The spray gun can be tilted to different angles when spraying, but never past horizontal unless using pressurized liner cup systems (ie. 3M PPS H/0).

Spraying Safely with your HVLP Turbine

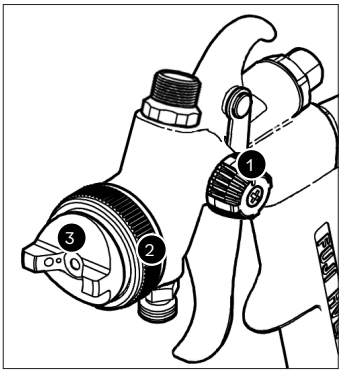
HVLP spraying is more friendly to the environment than most methods of spraying. It greatly reduces the amount of unnecessary overspray associated with high-pressure conventional spraying.

Spraying with certain materials like nitrocellulose lacquer can be hazardous. The lacquer, fumes and overspray are toxic, flammable and explosive. If spraying must be done inside an enclosed area, ventilate well. Spray close to an open window or door and situate a fan to draw out the fumes (an explosion-proof motor fan and explosion-proof lighting will be necessary).

Please check with your local jurisdiction on this matter.

UNDERSTANDING YOUR SPRAY GUN

Fan Pattern Control

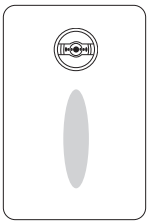


The fan pattern control knob (#5225) is located on the front-right side of the spray gun (if looking from the front).

The widest pattern will work best when spraying large surfaces like table tops or cabinet doors.

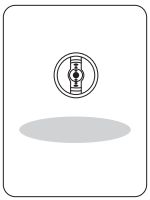
The narrow pattern size will be the best setting for spraying small surfaces such as spindles, tight corners and small details.

Item	Part	Name
1	5225	Fan Pattern Control Knob
2	5201	Collar
3	5202	Air Cap



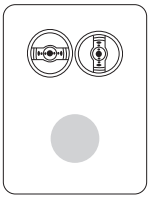
- Turn fan pattern control knob clockwise.
- Loosen the collar. Turn the air cap to a horizontal position then re-tighten the collar to lock it into place.

This setting produces a vertical spray pattern. This pattern is used more than any other by experienced spray painters.



- Turn fan pattern control knob clockwise.
- Loosen the collar. Turn the air cap to a vertical position then re-tighten the collar to lock it into place.

This setting produces a horizontal spray pattern. This pattern is most useful for painting vertically such as doorframes.



To produce a smaller fan pattern:

- Turn fan pattern control knob counter-clockwise. Then go into adjusting fluid output in tandem.

Fluid Control

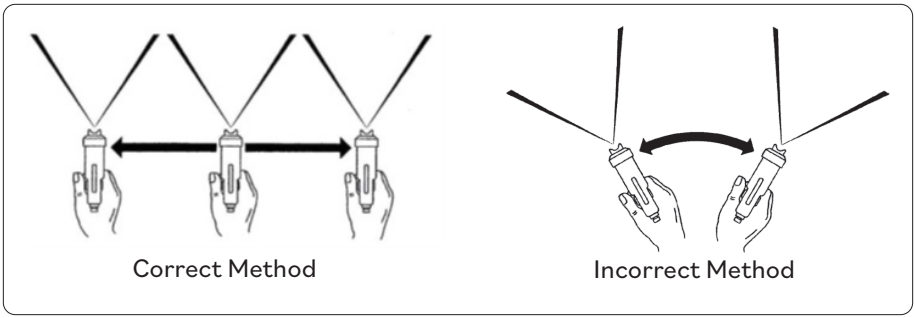
To set the fluid output, turn the fluid control knob (located at the back of the spray gun) clockwise to reach the “closed position,” do not force beyond this point.

Turn counter- clockwise for more material and clockwise for less. Once you set the fluid to your liking, leave it in this position - unless of course, you change the size of the fan pattern. Use the dots or numbers engraved on the fluid control knob as reference points.

For the smallest pattern (less than 1”), the spray gun must be moved closer to the workpiece - ensure to reduce the amount of material flow at the fluid control knob (#5221).

When initially setting the material flow, it is best to measure fluid setting in rotations, starting from a "closed" position.

SPRAYING TECHNIQUE

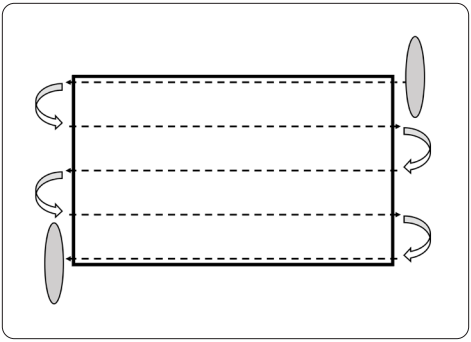


The spray gun should always be held perpendicular to the surface.

For best results, hold the spray gun no more than 6-8" (15-20cm) away from the surface to be sprayed.

Horizontal direction of a pass using a vertical pattern starting at top-right corner of the piece.

Start off the piece. Pull the trigger and move the spray gun in the direction you want to spray. Continue off the edge of the piece on the other end before releasing the trigger. Between each pass, overlap by at least half.



The non-bleed Fuji Spray® T-Model spray gun offers a two-stage trigger pull.

Slightly engage the trigger and atomizing air exits through the air cap. When the trigger is fully engaged, the needle then retracts for material flow through the nozzle.

De-Pressurizing The Cup

It is important to de-pressurize the material cup prior to opening the lid right after use. Doing this will prevent a small pressure pop that disperses material droplets. De-pressurize the cup by disconnecting the clear pressure tube on the lid of the cup from the check valve. This will make a short hissing sound.

Measuring Viscosity

A viscosity vup (#4 Ford Standard) is included in your Fuji Spray® system.

To test the viscosity of the coating, and determine which air cap set is best to use, it is best to gain a sense of the viscosity of the material. Use the viscosity cup to measure viscosity as follows:

1. Submerge the entire #4 Ford cup in the material.
2. Lift the cup out of the material and begin timing.
3. Stop timing when the steady material stream is first broken.

The time that it takes for the material to flow through the viscosity cup is an indication of viscosity. Low viscosity materials will flow through in as few as 5 seconds and very viscous materials can take many minutes.

Once the viscosity has been determined, use the Viscosity guide (page 11) to determine which air cap set will atomize the material best.

It is recommended experimenting to find the ideal viscosity for each application and record the information for future use.

The solvent used for thinning is usually the solvent mentioned on the can (instructions for 'cleaning the brushes'). However, please check with the coating manufacturer for thinning recommendations. The aim is to thin as little as possible.

Air Cap Set Selection

Six additional size setups are available as accessories. The 1.3mm is standard with all Fuji Spray® T-Model spray guns.

- 1.0mm, 1.3mm or 1.5mm can be used for most fine-finishing applications.
- The larger sizes such as 1.5mm can be used for most medium viscosity (8 - 37 seconds) coatings.
- 1.8mm is desirable for most high viscosity (37 - 50 seconds) latex and other paints.
- Higher viscosity (50 seconds and above) paints and finishes will need either 2.0mm or 2.5mm.

Air Cap Set range with part numbers:

Part #	5100-1	5100-2	5100-3	5100-4	5100-5	5100-6	5100-7
Size	0.8mm	1.0mm	1.3mm	1.5mm	1.8mm	2.0mm	2.5mm

The chart below illustrates how many seconds it should take for the material to flow out of the viscosity cup. **This is only an approximate guide.**

Air Cap Set Selection Guide/Viscosity				
Coating Type	Air Cap Set Size	Cup Viscosity Measured in Secs	Output	Fluid Control Knob Open Turns from Closed
Dye	0.8mm	8 or less	Fine	1
Shellac	0.8mm	8 or less	Fine	1.75
	1.0mm	8 - 17		
Sander/Sealer	1.0mm	8 - 17	Fine to Medium	2
	1.3mm	17 - 25		
Varnish	1.0mm	8 - 17	Fine to Medium	2.25 - 2.5
	1.3mm	17 - 25		
Clear Lacquer	1.0mm	8 - 17	Fine to Medium	2.25
	1.3mm	17 - 25		
Polyurethane	1.3mm	17 - 25	Medium to High	2
	1.5mm	25 - 37		
Pigmented Lacquer	1.5mm	25 - 37	High	2.5
	1.8mm	37 - 50		
Oil-Based Primer	1.5mm	25 - 37	High	2.5
	1.8mm	37 - 50		
Oil-Based Paint Milk Paint	1.5mm	25 - 37	High	2.5
	1.8mm	37 - 50		
Waterborne Primer	1.8mm	37 - 50	Extra High	2.5
	2.0mm	50 - 80		
Waterborne Paint	1.8mm	37 - 50	Extra High	2.5
	2.0mm	50 - 80		

CLEANING AND MAINTENANCE

It is very important to properly clean your spray gun after each use. This will prevent any build-up and/or contamination when spraying other materials. Keeping the spray gun clean will also prevent clogs and blockages.

LEVEL 1 CLEANING

Cleaning Fluid Passages

1. Depressurize cup and remove lid, then pour left over material into a container
2. Wipe the inside of the cup with a solvent-soaked cloth
3. Add the appropriate solvent into the cup, reattach lid to the cup and spray
4. Pull the trigger repeatedly while adjusting the pattern control assembly from a wide to narrow pattern to properly flush the fluid passages, needle and nozzle

NOTE

Consult the manufacturer's TDS sheet or the label on the can for the proper solvent to use when cleaning. For waterborne finishes, always use water.

It is important this type of cleaning is completed after each use to preserve the functionality of the spray gun. Cleaning the fluid passages and air passages on your spray gun will ensure effective atomization and greatly reduce potential spray issues.

For best results, use the Fuji Spray® Cleaning Kit (#3100).

Please ensure you clean the spray gun before the coating or finish has dried in the spray gun. Do not leave finish or coating in the spray gun overnight or for long periods of time.

LEVEL 2 CLEANING

Thorough Cleaning

After performing Level 1 cleaning and removing the cup from the spray gun:

1. Remove fluid control knob and needle spring
2. Pull the trigger and the needle will extend from the rear of the gun
3. Carefully slide the needle out. Do not bend
4. Remove the collar and air cap
5. Using the supplied wrench, remove the fluid nozzle
6. Remove air diffuser, air diffuser seal, air divider with seal, then inspect for material residue
7. Use the supplied cleaning brush and appropriate solvent to clean behind the fluid nozzle
8. Soak the collar, air cap, fluid nozzle and needle in appropriate solvent, and clean. It is not necessary to soak or clean air diffuser or air divider unless there are traces of material on it

CAUTION

If using wire brush or metal tools (pick and file) to clean the spray gun, be cautious as to not scratch or damage spray gun parts.

Do not disassemble the bottom feed cup assembly - threads in the cup have been sealed at the factory to prevent leakage under pressure.

Never soak the complete spray gun in solvent as this removes the grease from internal mechanical components and distributes thinned paints throughout the air passages. It could also damage internal parts such as the spindle valve or valve seal. It is best to soak the air cap, nozzle, needle, air diffuser and air divider only. You may soak only the metal parts in solvent.

When reinstalling the air diffuser, note that there is a locating pin on the back side. This pin must be located into the matching hole in the air divider and front of spray gun body. If reinstalled incorrectly, you will be unable to adjust your fan size. Upon reassembly, it is best to lubricate all moving and threaded parts.

FUJI SPRAY® PLATINUM TURBINES

All PLATINUM turbines are built with the Fuji Spray® Heat Dissipation Chamber™. Excess heat is channeled directly to this outlet located at rear of the case.

There is no maintenance required for the Heat Dissipation Chamber™.

Turbine Care & Maintenance

If experiencing a problem with the turbine unit, please do not try to open and service the turbine yourself. Contact Fuji Spray® for technical assistance.

If it is an issue of no power, check the power outlet first. Also, try resetting the breaker of the turbine by pressing it once. The breaker is located at the rear of the case for Q turbines, and right side for Mini-Mite turbines.

All HVLP turbines are designed for intermittent use. When waiting between coats or stepping aside to refill the cup, it is good practice to turn the turbine off during this time. This allows the machine to cool off.

The turbine unit may only be operated for 1 hour within every 2-hour period.

When spraying, always ensure that the turbine unit is at least 15 feet away from spray project and in a well-ventilated area. This will prevent any overspray or debris being ingested into the turbine. Failure to do this may cause the filters to clog, resulting in damage to the internal motor.

If possible, use the entire length of the 25ft hose. Having the turbine situated in a separate room with proper ventilation is a great preventative measure to any overspray ingestion. Use conduit if necessary, to run the air hose through the wall.

Filter(s)

Mini-Mite PLATINUM™ Series (semi-circle shape filters)	#7224-2
Q PLATINUM™ Series	#5029

It is important to clean or replace the filters regularly. Operating the turbine unit with clogged or dirty filters will cause the turbine to overheat and result in premature failure.

The Mini-Mite PLATINUM™ turbines use two filters. To remove, simply pull the filters out from filter housing located on the sides of the turbine, the access point faces the rear of the case. Wash in warm soapy water and dry before replacing.

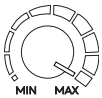
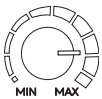
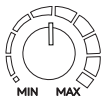
The Q PLATINUM™ turbines use only one filter. To remove, simply pull the filter out from filter housing located on the bottom right of the turbine, the access point faces the bottom of the case. Wash in warm soapy water and dry before replacing.

Replacing a filter while still wet will damage the motor while in operation. All Fuji Spray® filters are a friction fit. The filter must fill the entire filter enclosure when installed.

Cleaning your filters regularly is essential to maintaining your turbine. It is always a good idea to have a spare pair of filters on hand.

Q5 PLATINUM™ Variable Speed Control Dial

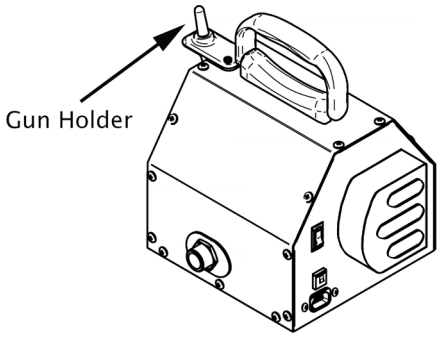
The Q5 PLATINUM™ turbine is installed with a variable speed control dial on the front of your turbine case. This feature offers the ability to adjust the PSI to the desired setting needed to perfectly atomize the material while reducing overspray/bounce-back to an absolute minimum.

Setting	Equivalent to	Practical Applications
	5-stage (9.5 psi)	Clear coats and heavier materials like Latex. For larger jobs such as walls and ceilings
	3 and 4-stage (7.5 psi)	Lacquers, Polyurethanes and Latex when spraying cabinets, crown moulding, trim and furniture
	2-stage (5 psi)	Stains, Lacquers and Polyurethanes especially when trying to create a softer spray or less overspray

Spray Gun Holder Installation and Use

The two holes on the top of the gun holder require the two black screws and washers. These screws fit into threaded inserts in the metal case. Do not over tighten - snug is fine.

The single silver-colored screw must be installed in the single hole on the side of the gun holder. Once again, please do not over tighten this screw - snug is fine.



If you do not intend on using the gun holder you may insert the appropriate screws (as mentioned above) to block the holes. The gun holder can also be fastened onto the edge of a workbench or table.

Place the hose connector (#5229) located at the base of the spray gun handle over the shaft of the gun holder shown in above illustration. Please ensure it is fully set down to the base of the shaft. The spray gun will now sit stationary. The spray gun can be left on the holder for any length of time. It is a convenient resting place between spraying.

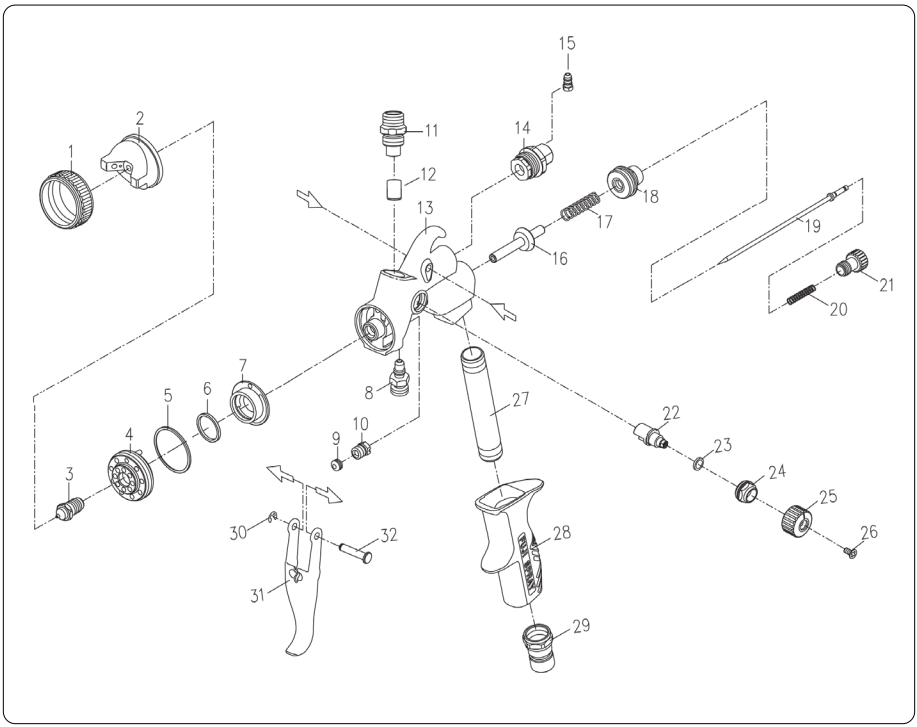
Air Hose Care

Whether while in use or in storage, be sure to prevent the hose from kinking. During use, do not over-coil the hose as this may restrict air flow and strain the motor. Avoid stepping on the hose as this may damage the hose or fittings.

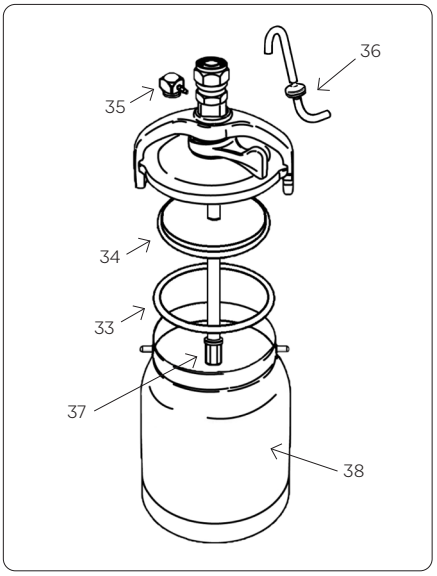
It is a good idea to make use of the turbine wireless remote (#3072). This device allows you to turn the turbine unit on/off for your convenience without having to walk back and forth to the turbine.

SPRAY GUN DIAGRAM

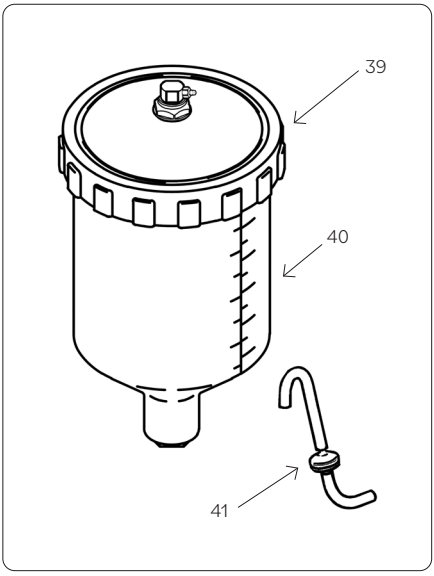
T-Model™



Bottom Feed Cup Assembly (#2095)



Gravity Cup Assembly (#9860)



Item	Part	Name	Note
1	5201	Collar	**
2	-	Air Cap	*
3	-	Fluid Nozzle	*
4	5204	Air Diffuser	
5	5205	Diffuser Seal	**
6	5206	Air Divider Seal	**
7	5207	Air Divider	**
8	-	Fluid Coupler - Bottom Feed (T-70)	X
9	5209	Needle Packing	***
10	5210	Needle Packing Nut	
11	-	Fluid Coupler - Gravity Feed (T-75G)	X
12	-	Fluid Coupler Seal	X
13	-	Gun Body	X
14	5250	Rotating Nipple Assembly	
15	5215	Nipple	
16	5216	Spindle Valve	
17	5217	Spindle Valve Spring	**
18	5218	Fluid Screw Nut	
19	-	Needle	*
20	5220	Needle Spring	**
21	5221	Fluid Control Knob	**
22	-	Air Deflector	***
23	-	Air Deflector Seal	***
24	-	Air Deflector Nut	***
25	-	Pattern Control Knob	***
26	-	Pattern Control Locking Screw	***
27	-	Handle Tube	X
28	-	Handle	X
29	-	Hose Connector	X
30	5230	Retaining Ring	

Item	Part	Name	Note
31	5231	Trigger	
32	5232	Trigger Pin	
33	2097	Cup Lid Gasket	
34	2096	Diaphragm	
35	2304	90 Degree Nipple	
36	2024	Pressure Tube	
37	9055	Paint Strainer	
38	2092	1Qt. Cup (1000cc)	
39	9865	Gravity Cup Lid	
40	9860	Gravity Cup (600cc)	
41	2024-L	Pressure Tube - Long	

NOTE

(X) Part not to be removed

(*) Part only available together as a full Air Cap Set (#5100-)

(**) Part available with Rebuild Kit (#5262)

(***) Part only available together as full Pattern Control Assembly (#5250)

TROUBLESHOOTING

Finish Problems

Problem	Cause	Fix
Orange peel Finish is rough and resembles orange peel. Surface is spotty.	Material is too thick	Add more thinner (or appropriate solvent)
	Air control valve turned down	Increase air pressure to the spray gun
	Drying too fast	Add dry time extender
	Too close to surface	Keep distance 6-8” (15-20cm) away from surface
	Too much material flow	Turn fluid control knob clockwise to decrease flow
		Spray an extremely thin film, but still wet coat
Gritty finish Sprayed surface is rough and dry to the touch.	Not enough material output, causing dry spray	Set the fluid control knob to increase material flow
		Spray a wetter coat
	Too far from surface	Keep distance 6-8” (15-20cm) away from surface
	Surface is rough or dirty	Prep or clean thoroughly
Fish eyes A sprayed surface or spot that the coating does not adhere to.	Contamination such as silicone or oil on the surface that interferes with the finish	Thoroughly clean, wash or sand the area, then spray over. Start with light coats
Runs and sags When coating is pooling in an area causing drips.	Too much material flow	Turn fluid control knob clockwise to decrease flow
	The speed of your pass is too slow	Bring your pass to a moderate speed
	Inconsistent distance from surface	Keep distance 6-8” (15-20cm) away from surface. (See page 9, Technique)

Blushing Hazy appearance on a sprayed surface when it dries.	Solvent-based clear finish sprayed in high humidity conditions	Add dry time extender
		Spray in less humid conditions

Spray Gun Problems

Problem	Cause	Fix
The trigger is sluggish	Needle packing is too tight	Leakage from the needle packing nut . Adjust needle packing (See page 24, Leakage from the needle packing nut)
		Lubricate shaft of needle
	Bent needle	Replace
	Spindle valve getting stuck	Lubricate spindle valve behind trigger

Paint at the diffuser hole	Fluid nozzle is loose and paint / material is leaking around it	Tighten with supplied wrench

Cup leaks Bottom feed model	Lid of the cup is not properly sealing at the rim of cup	Change gasket
	Cup is loose - rim of cup may be warped from tightening too much or cracked	Check rim of the cup, if warped or cracked, replace
	Material build up on the rim of the cup	Clean rim's material build up

Cup leaks Gravity feed model	Cup or lid may be cracked	Replace cup assembly
	Cup lid is too loose	Clean. Tighten cup lid - hold cup (not gun) with one hand, tighten lid with the other
	Material build up in the threads of the cup and lid	Clean material build up

Uneven spray pattern	Damaged needle, nozzle	Replace
	Damaged air cap, air diffuser, or air divider	
	Blockage in air diffuser or air divider	Clean air diffuser or air divider
	Air holes in air cap or fluid nozzle clogged	Soak and clean air cap or fluid nozzle
	Spraying at an angle	Keep consistent parallel distance of 6-8" (15-20cm) from surface

Gun sprays in a pulsating manner	Needle packing has worn a little or is loose	Tighten with supplied wrench, adjust needle packing (page 24)
	Cup is almost empty	Refill cup with paint / material
	Blocked pressure tube, check valve or nipple	Check for proper air passage, clean or replace
	Blocked fluid passage	Thoroughly clean fluid passages with appropriate solvent
	Air passage in the lid of the cup may be obstructed	Clean obstruction located on lid of the cup
	Fluid nozzle is loose or damaged	Tighten with supplied wrench or replace

Leak from fluid nozzle If paint material comes out of the fluid nozzle without pulling the trigger...	The needle is not seating in fluid nozzle properly - check if needle or fluid nozzle is damaged or worn	Lubricate needle or replace needle and fluid nozzle
	Needle packing may be too tight preventing needle from moving	Leakage from the needle packing nut. Adjust needle packing (See page 24, Leakage from the needle packing nut)
	Foreign matter trapped between needle and fluid nozzle	Remove needle and fluid nozzle and thoroughly clean
	Loose fluid nozzle	Tighten fluid nozzle
	Wrong fluid nozzle or needle size installed	Check and install correct fluid nozzle or needle size to match

No paint or very little paint	No pressure from air supply hose	Check for air leaks on hose or adjust to appropriate pressure
	The air passage in lid of the cup may be obstructed	Clean obstruction located on lid of the cup
	Pressure tube/check valve clogged or damaged	Replace pressure tube/check valve
	Cup is empty	Refill cup
	Metal fluid tube is blocked with paint/ material (bottom feed model)	Remove cup assembly from spray gun and clean with tube brush
	Pressure tube installed in the incorrect direction	Tapered side of check valve must be towards cup
	Obstructed fluid passage, the fluid coupler is clogged with dried paint it	Use supplied cleaning brush to unclog inside of fluid coupler using appropriate solvent. The fluid coupler should not be removed

Excessive overspray	Spray pattern size is too large for the item being sprayed	Adjust fan pattern control knob to make a smaller fan pattern
	The spray gun is being held too far away	Distance should be 8” max. (20cm)
	Trigger engaged throughout the entire spray piece	Trigger on and off as you pass over the edges of the item
	The ‘paint’ is too thin	Try thinning less, or use a smaller air cap set size
	Too much atomizing air pressure	Reduce inlet air at air control valve
	No ambient air flow	Open window/door or install extraction fan*

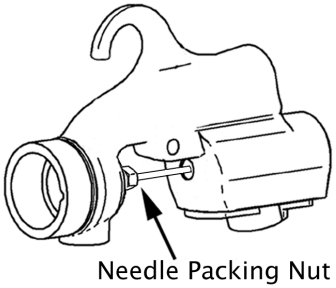
NOTE

*If spraying a flammable, combustible product such as nitrocellulose lacquer, installing an explosion-proof fan (and explosion-proof lighting and switches) is a must. Please check with local jurisdiction on this matter.

Leakage from the needle packing nut

This occurs when the needle packing nut is too loose.

Half fill the cup with water. Attach spray gun air hose and turn on turbine to pressurize cup. This is a very sensitive adjustment. Imagine the needle packing nut as if it were a clock, use the supplied wrench to gently tighten the needle packing nut one or two minutes at a time. Wipe or blow away water in between adjustments. Repeat until no water is seen where needle passes through needle packing nut.



It is a good idea to apply light machine oil or to the needle shaft where it passes through the needle packing nut and distribute by pulling the trigger back and forth. This will lubricate the needle packing.

Avoid getting any lubricant on the needle tip. If lubricant does come in contact with the needle tip, clean as necessary.

Pressure pot use for 4-stage and 5-stage turbines

If you use a 4-stage turbine or higher, a compressor is not needed to pressurize the Fuji Spray® 2 Qt. Pressure Pot (#5432).

The Fuji Spray® 2 Qt. Pressure Pot Assembly has unique features. These features combined with additional pressure from the Fuji Spray® 4-stage or higher turbine, allows the user to connect the larger capacity pot to the turbine system without the need for a compressor.

To connect the Fuji Spray® 2 Qt. Pressure Pot Assembly:

- Remove the existing cup assembly from the spray gun
- Connect material line (fluid hose) to the fluid coupler on the gun
- Block off the air that would normally go from the gun to the cup assembly. This nipple can be covered with nipple cap (#5411 - included in 2 qt. pressure pot kit)

CONSUMABLES AND ACCESSORIES

Spray Gun

Model	Part	Name
5070	2024-5	Pressure Tubes (5 pack)
5070	2092	1Qt. Cup
5070	2095	1Qt. Cup Assembly
5070	2096-3	Diaphragm (3 pack)
5070	2097-10	Cup Gaskets (10 pack)
5070	2098	Cup Parts Kit
5070	9055-10	Strainers (10 pack)
5070	9080	Mini 3-Cup Set (350cc)
5175G	2024L-5	Pressure Tubes - Long (5 pack)
5175G	5330	Gun Holder Stand
5175G	9030-10	Mesh Barrel Strainers (10 pack)
5175G	9730	3oz. Gravity Cup Assembly - Aluminum
5175G	9740	400cc Gravity Cup Assembly - Aluminum
5175G	9760	600cc Gravity Cup Assembly - Aluminum
5175G	9775	1000cc Gravity Cup Assembly - Aluminum
5175G	9860	600cc Gravity Cup Assembly - Nylon
Both	2049F	Flexible 6ft. Whip Hose
Both	3100	Spray Gun Cleaning Kit
Both	5262	Rebuild Kit
Both	9025-3	Reusable Paint Strainers (3 pack)
Both	9070-40	Cone Strainers (40 pack)

Turbine

Part	Name
5029	Q PLATINUM™ Turbine Filters
7224-2	Mini-Mite PLATINUM™ Turbine Filters (1 pair)
3072	Turbine Wireless Remote

FUJI SPRAY® LIMITED WARRANTY

Fuji Industrial Spray Equipment Ltd. (“Fuji”) provides a 24 month limited warranty on the product to the original purchaser effective from the date of purchase against defects in materials and workmanship.

To register your Fuji Spray® products and submit a warranty claim, scan the QR code or visit:

www.fujispraysystems.com/product-registration

The warranty does not cover damage or defects arising as a result of abuse, misuse, accident, negligence, malfunction, corrosion, normal wear and tear, inadequate or lack of spray gun or other aspects of maintenance of the product, damage arising from improper assembly, installation or operation, damage arising from the product being used with parts that are not genuine Fuji Spray® parts, or damage arising from the product being used for a purpose other than that for which it was designed or intended. The warranty is void if repairs to the product are made or attempted by anyone other than Fuji or its authorized agent, or if any modifications to the product are made or attempted.

Purchasers located in North America must obtain a Return Material Authorization number by calling Fuji at 1-800-650-0930 before returning the product to Fuji or its designated representative.

Purchasers located outside North America must contact the vendor from which they purchased the product. In all instances purchasers must return the product together with proof of purchase and with shipping prepaid. For valid warranty claims the product will be returned to the purchaser with shipping prepaid.

This is the only warranty provided by Fuji with respect to the product and is in lieu of any other warranties, express or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose. Fuji’s sole obligation under this warranty shall, at its option, be to either repair or replace a product determined by Fuji to be defective. In no event shall Fuji be liable for loss or profits, incidental or consequential damages, injury to any person or property, or any other damages of

SERVICE INFORMATION

For product service and repair information on your Fuji Spray® products, scan the QR code or visit:

www.fujispray.com/service-centers

CE

DECLARATION OF CONFORMITY

Manufacturer:	Fuji Industrial Spray Equipment Ltd. 800 Alness Street, Toronto, ON Canada M3J 2H5
Declares that the product:	HVLP Turbine
Product name(s):	Q3, Q4, Q5, Mini-Mite 3, Mini-Mite 4, Mini-Mite 5 Semi-PRO 2, Hobby-PRO 2
Model(s):	3003-T70, 2893-T75G, GXPC-2893 3004-T70, 2894-T75G, GXPC-2894 3005-T70, 2895-T75G, GXPC-2895 2903-T70, 2803-T75G, GXPC-2803 2904-T70, 2804-T75G, GXPC-2804 2905-T70, 2805-T75G, GXPC-2805 2202, 2203G, 2250

Conforms to the following directive(s):

Q3, Q4, Q5, Mini-Mite 3, Mini-Mite 4, Mini-Mite 5, Semi-PRO 2 and Hobby-PRO 2	Low Voltage Directive 2014/35/EU EN 60335-1:2012 + A15:2021 EN 62233:2008 Electromagnetic Compatibility Directive 2014/30/EU EN IEC 55014-1:2021 EN IEC 55014-2:2021 EN IEC 61000-3-2:2019 + A1:2021 EN IEC 61000-3-3:2013 + A1:2019 + A2:2021

June 2025

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Notes

Notes

Fuji Spray®

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