

MANUAL GRAVITY MINI SPRAY GUN

NT-401

OPERATION MANUAL



**ONE
TECH**

ONETECH

Tools



II 2G X

ATTENTION! PLEASE READ THIS MANUAL BEFORE OPERATING THE TOOL (SPRAY GUN).

IMPROPER USE OF THE TOOL MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!

ONLY QUALIFIED AND SPECIALLY TRAINED PERSONNEL FAMILIARIZED WITH THESE INSTRUCTIONS SHALL BE ALLOWED TO OPERATE AND PERFORM MAINTENANCE OF THE TOOL.

This manual contains a description, safety rules and all the information necessary for the correct operation of the spray gun.

The safety recommendations contained in this manual shall be observed in addition to the general safety regulations in force in the region where the tool is used and do not replace them.



- Sprayed materials (paints, solvents, etc.) can be harmful to health. Always read all labels, safety data sheets and follow all the recommendations for the material before spraying. In case of any doubt, contact your material supplier. The use of respiratory protective equipment is always recommended.
- Always wear eye protection when spraying or cleaning the spray gun.
- Gloves must be worn during spraying or cleaning the equipment.
- Static electricity can be generated by the fluid and/or air passing through the hoses, by the spraying process and in the process of cleaning of non-conductive parts with cloth. To prevent static discharges, earthing continuity must be maintained between the spray gun and other metallic equipment used. It is essential to use conductive air and/or fluid hoses.
- Sparks, open flames or hot surfaces can result in fire or explosion.



- **To reduce the risk of injury, user must read and understand operator's manual.**



GENERAL OPERATING RULES

- When working with the tool, always use personal protective equipment appropriate for the type of work performed (safety goggles, impact resistant glasses, hand and body protection, etc.);
- Dress properly in compliance with safety requirements;
- Use the spray gun only for its intended purpose;
- Observe grounding regulations in the workplace;
- To ensure maximum performance and durability of the tool, the working pressure of compressed air must match the spray technology;
- Exposure to high noise levels can cause hearing loss. Timely maintenance will help to avoid increased noise levels;
- The flow of compressed air can cause serious injuries. Never direct airflow towards yourself or others. Do not use compressed air to clean clothes;
- Before starting work, check the compressed air hose for any damage, wear or other defects. Any damaged parts shall be replaced immediately;
- Before starting work, check screw connections. Tighten them, if necessary;
- Do not carry the tool by the compressed air hose;
- Always disconnect the tool from the compressed air supply line before performing maintenance;
- Use materials and solvents that are compatible with the spray gun parts. Do not use solvents or products containing acids;
- Avoid prolonged exposure of non-metallic parts of the spray gun to solvents.

- Flush the spray gun before starting work, before changing materials and at the end of work. Do not use methylene chloride or 1,1,1-trichloroethane for flushing. These solvents can chemically react with aluminum gun parts.

INTENDED PURPOSE

Pneumatic gravity spray gun is designed to apply liquid and low-viscosity materials (varnishes, enamels, primers, etc.) to the surface to be treated manually by pneumatic spraying.

The spray gun is suitable for use with both water- and solvent-based coating materials. The spray gun is not designed for use with highly corrosive and/or abrasive materials and if used with such materials it must be expected that the need for parts cleaning and/or replacement will be increased. If there is any doubt regarding the suitability of a specific material, contact your ONETECH distributor or ONETECH team directly.

OPERATING PRINCIPLE

- ✓ The airflow required for spraying is supplied to the spray gun through a suitable air inlet connection.
- ✓ When you press the trigger, the airflow passes through the corresponding channels in the spray gun body and exits through the holes in the air cap.
- ✓ When exiting through the holes in the air cap, the air stream mixes with the sprayed material, and the additional directional flow breaks the material into small droplets and forms a paint spray.

MAINTENANCE

- ✓ To clean air cap and fluid nozzle, brush exterior with a stiff bristle brush. If it is necessary to clean the cap holes, use a broom straw or toothpick, if possible. If a wire or hard instrument is used, extreme care must be exercised to prevent the holes scratching or burring, which may cause a distorted spray pattern.
- ✓ To clean fluid passages, remove excess material from the cup, then flush with solvent. Wipe the gun exterior with a dampened cloth. Never completely immerse the tool into any solvent or cleaning solutions, as this is detrimental to the lubricants and shortens the life of the spray gun.

STORAGE

- Avoid storing the instrument in high humidity conditions.
- Lubricate the tool before long-term storage (see MAINTENANCE).

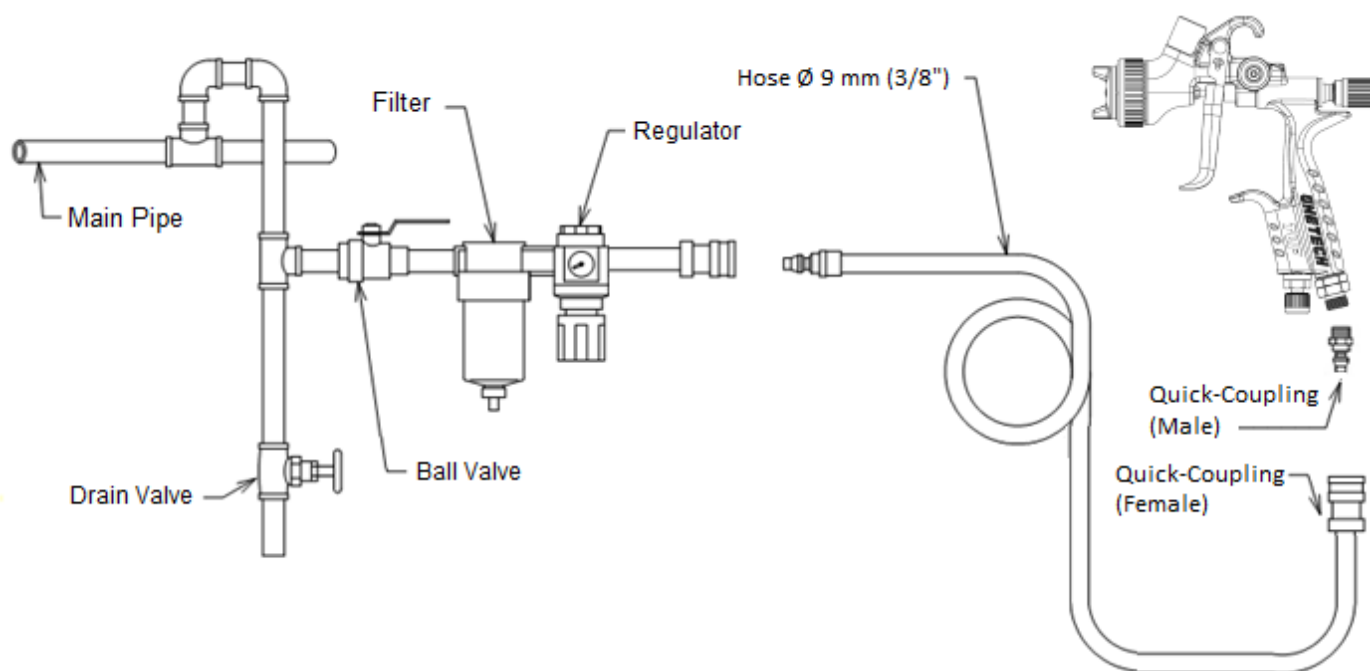
DISPOSAL

- When disposing of the tool or individual components, observe the local regulations in force in the region where the equipment is used.

AIR SUPPLY SYSTEM

- Always use clean, dry air.
- The recommended diameter of the compressed air hose ID 9 mm (3/8").
- Maintain the necessary supply of air in the compressed air supply line for trouble-free operation and optimal performance of the tool.

EXAMPLE OF AIR SUPPLY SYSTEM LAYOUT



TECHNICAL SPECIFICATION

Model	Nozzle, mm	Air cap	Air pressure (recommend.), bar	Air consumption, l/min	Material consumption, ml/min	Spray width*, mm	Weight**, g
NT10-401-G05	0.5	LVLP	1.0 – 1.5	160	35	60 – 80	220
NT10-401-G08	0.8				55	120 – 140	
NT10-401-G10	1.0				75	150 – 170	

* – spraying distance 120 mm, fluid viscosity – 14±1 seconds.

** - without fluid cup.

Material inlet thread	Air inlet thread
M11x1.5 (F)	G 1/4" (M)

TROUBLESHOOTING GUIDE



FLUTTERING

Possible Cause	Solution
Insufficient material in the cup	Refill material
Dry or worn fluid needle packing set or loose fluid needle packing screw	Lubricate or replace the fluid needle packing set or tighten the fluid needle packing screw
Loose or damaged fluid nozzle	Tighten or replace the fluid nozzle



CRESCENT

Possible Cause	Solution
Material build-up in the air cap	Clean the air cap with proper objects



HEAVY TOP OR BOTTOM

Possible Cause	Solution
Material build-up in the air cap	Clean or replace the air cap
Dirty or damaged fluid nozzle	Clean or replace the fluid nozzle



SPLIT

Possible Cause	Solution
Material too thin or too much	Increase material viscosity
Atomizing air pressure too high	Reduce air pressure



HEAVY CENTER

Possible Cause	Solution
Material too thick or too much	Reduce material viscosity
Atomizing air pressure too low	Increase air pressure

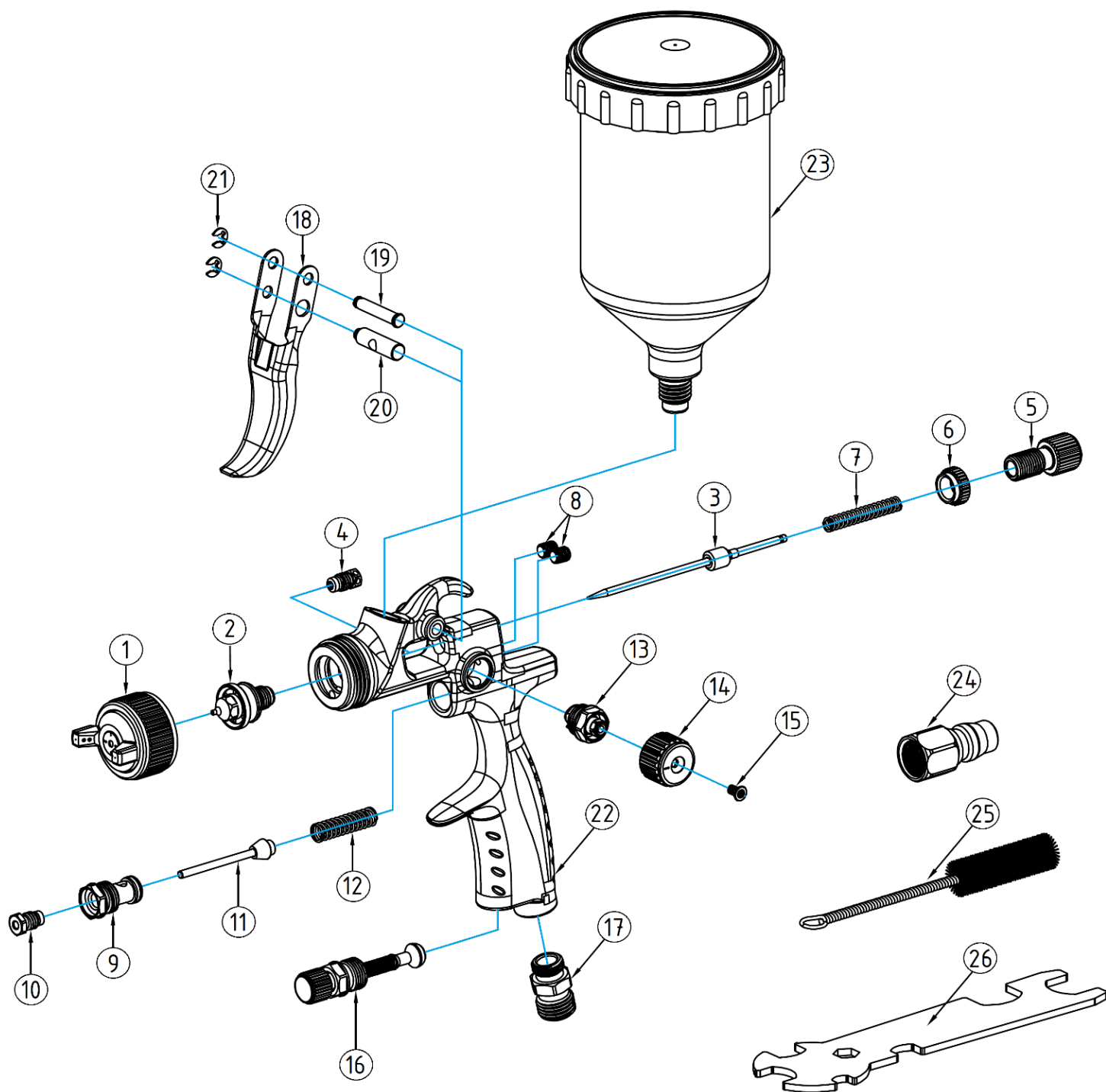
MATERIAL DRIPS FROM THE FLUID NOZZLE

Possible Cause	Solution
Obstruction between the fluid nozzle and the fluid needle	Clean the fluid nozzle and the fluid needle with thinner
Worn fluid nozzle or fluid needle	Replace the worn parts

MATERIAL LEAKS FROM THE NEEDLE PACKING SCREW

Possible Cause	Solution
Loose fluid needle packing screw	Tighten the fluid needle packing screw, check the fluid needle for free movement

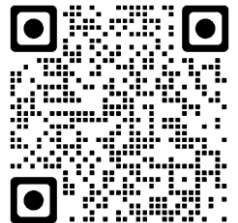
REPLACEMENT PARTS



No.	Description	Part No.
1	Air cap for 0.5 mm	NT10S-530
	Air cap for 0.8 mm	NT10S-579
	Air cap for 1.0 mm	NT10S-580
2	Fluid nozzle 0.5 mm	NT10S-531
	Fluid nozzle 0.8 mm	NT10S-532
	Fluid nozzle 1.0 mm	NT10S-533
3	Fluid needle for 0.5 mm	NT10S-534
	Fluid needle for 0.8 mm	NT10S-535
	Fluid needle for 1.0 mm	NT10S-536
4	Needle packing nut	NT10S-537
5	Fluid adjusting knob	NT10S-538
6	Fluid tighten screw	NT10S-539
7	Fluid needle spring	NT10S-540
8	Screw (M5x6)	NT10S-541
9	Air valve set	NT10S-542
10	Air valve packing nut	NT10S-543

No.	Description	Part No.
11	Air valve needle	NT10S-544
12	Air valve spring	NT10S-545
13	Fan adjusting set	NT10S-546
14	Fan adjusting knob	NT10S-547
15	Screw (M3x6)	NT10S-548
16	Air adjusting set	NT10S-549
17	Air inlet joint 1/4"G (M)	NT10S-550
18	Trigger	NT10S-551
19	Trigger pin	NT10S-552
20	Trigger pin with hole	NT10S-553
21	Circlips (Ø 3x7x0.6)	NT10S-554
22	Gun body	NT10S-555
23	Fluid cup 250 ml., M11x1.5 (M)	NT05A-0088
24	Quick joint 1/4"G (F)	NT10S-557
25	Brush	NT10S-558
26	Spanner	NT10S-559

Other languages:



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