

MANUAL GRAVITY SPRAY GUN

NT-105

OPERATION MANUAL



ONETECH

ONETECH

Tools

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).

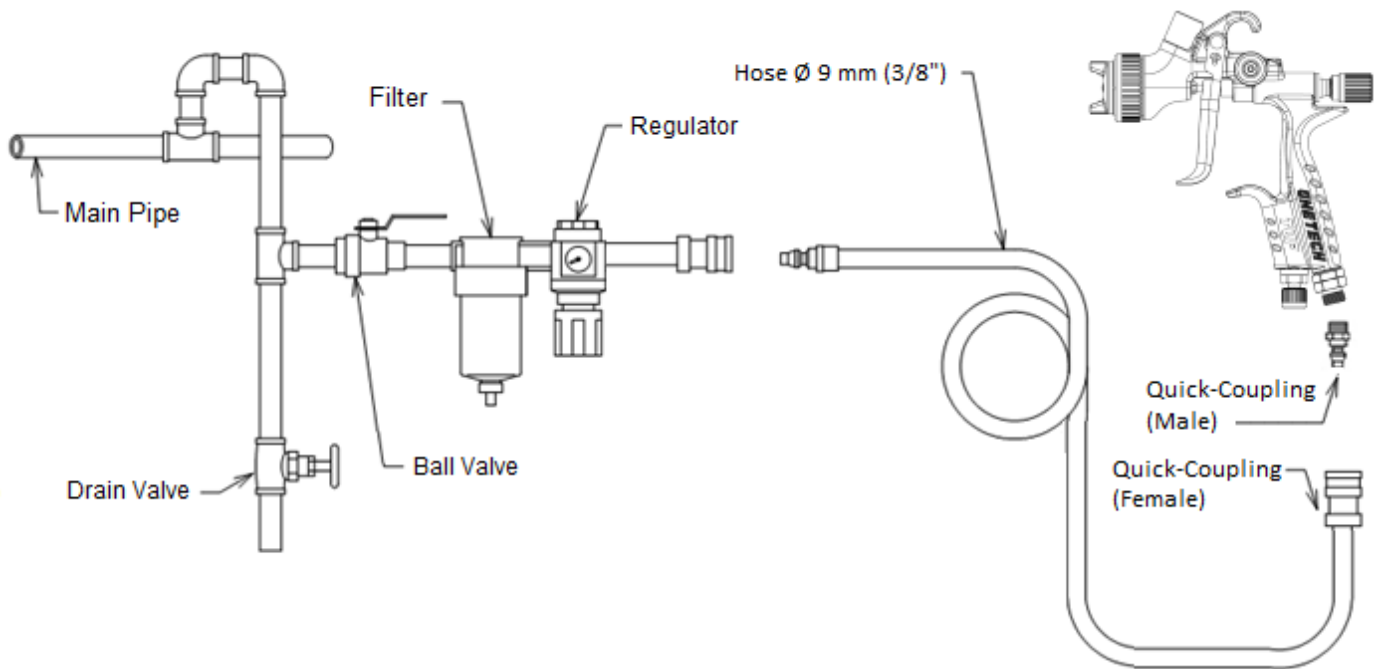
DISPOSAL

- 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
NT10-105-HVLP-G13	1.3	HVLP	1.8	430	190	260–290*	464
NT10-105-MP-G13	1.3	MP	2.0	290	215	260–300**	
NT10-105-MP-G14	1.4				225		

* – spraying distance 150–180 mm, fluid viscosity 20±1 seconds.

** – spraying distance 170–200 mm, fluid viscosity 20±1 seconds.

*** – without fluid cup.

Material inlet thread	Air inlet thread
M16x1.5 (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 MP	NT10S-446
	Air cap HVLP	NT10S-447
2.	Fluid nozzle 1.3 (for MP)	NT10S-448
	Fluid nozzle 1.4 (for MP)	NT10S-449
	Fluid nozzle 1.3 (for HVLP)	NT10S-450
3.	Air distribution ring	NT10S-451
4.	Gasket	NT10S-452
5.	Needle packing nut	NT10S-453
6.	Gasket	–
7.	Valve sleeve	–
8.	Gasket	–
9.	Air valve sleeve	–
10.	Valve rode	–
11.	Air valve spring	NT10S-425
12.	Fluid needle seat	NT10S-456
13.	Fluid needle 1.3/1.4 (for MP)	NT10S-457
	Fluid needle 1.3 (for HVLP)	NT10S-458
14.	Fluid needle spring	NT10S-428

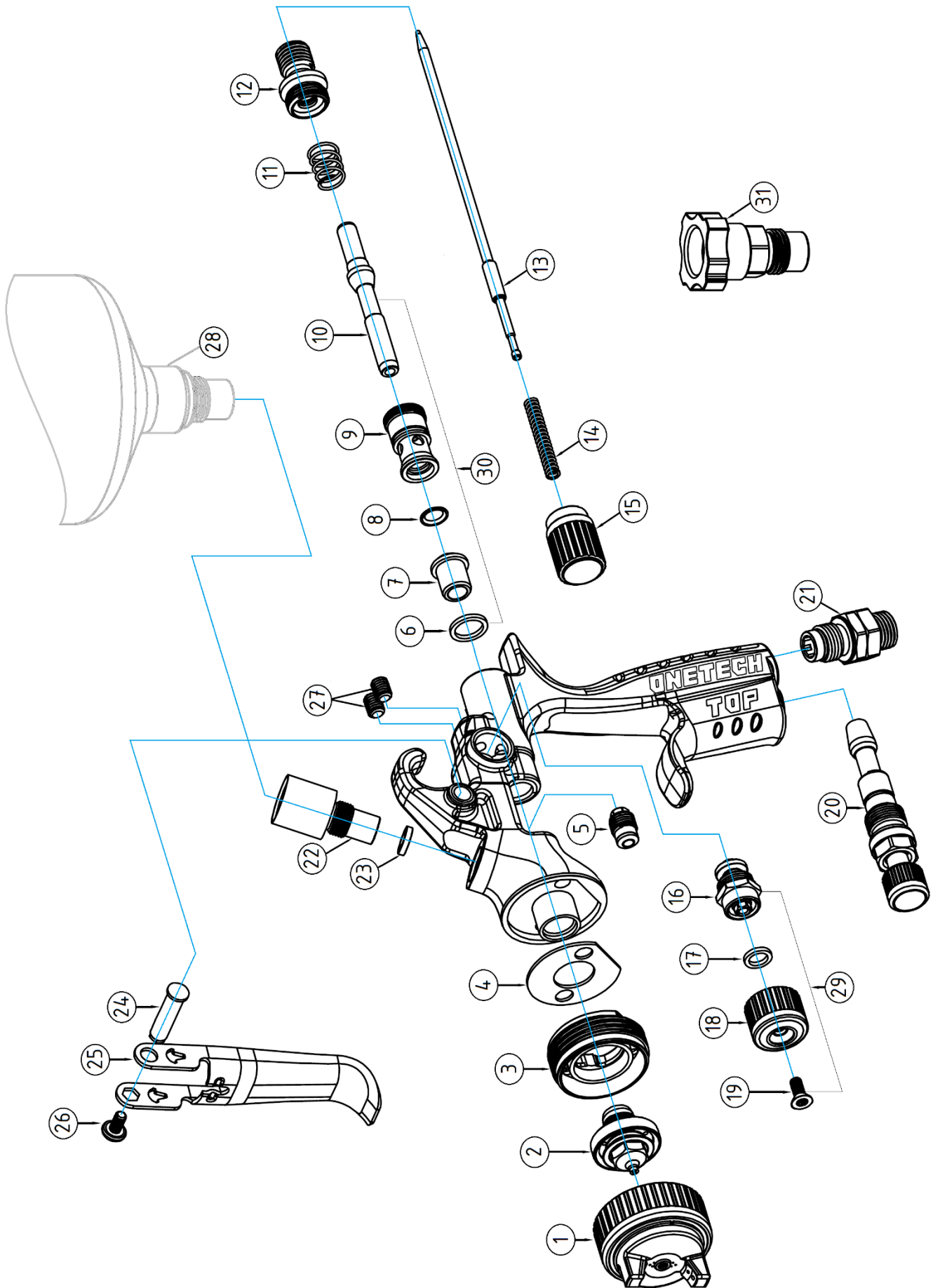
No	Description	Part No.
15.	Fluid adjustment knob	NT10S-459
16.	Fan adjustment set	–
17.	Sealing ring	–
18.	Fan adjustment knob	–
19.	Screw (M4)	–
20.	Air adjustment set	NT10S-461
21.	Air inlet joint (360°)	NT10S-435
22.	Fluid inlet joint	NT10S-436
23.	Gasket	NT10S-437
24.	Trigger pin	NT10S-438
25.	Trigger	NT10S-439
26.	Screw (M4)	NT10S-440
27.	Screw (M3)	NT10S-441
28.	Fluid cup 600 ml (not included)	NT05A-0073
29.	Pattern adjustment set (incl. 16, 17, 18, 19)	NT10S-462
30.	Air valve set (incl. 6, 7, 8, 9, 10)	NT10S-463
31.	Adapter EPS	NT05-EPS

Service Kit (included)

	NT10S-443	<ol style="list-style-type: none"> Hex wrench (for removing the screws on the trigger); Wrench 12 mm (for removing the nozzle); Brush; Small wrench 6 mm (for removing needle packing nut); Quick coupling adapter; Plastic gasket for sealing (insert it into the air connector); Filter (NT01G-0001); Gaskets (3 pcs.) for spray gun head (NT10S-418).
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TOOLS AND ACCESSORIES

	NT05-EPS-600	Efficient painting system cup, 600 mL
	NT05-RP-003-G	Air pressure regulator with gauge: <ul style="list-style-type: none"> – Material: tempered glass, brass, SST, iron, plastic; – Pressure range: 0–10 Bar; – Gauge size: Ø 33 mm.



Other languages:



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www.onetech-auto.com

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