

Trilogy[®] Air-Assisted Airless Manual Spray Gun

Customer Product Manual
Part 1601051-02
Issued 12/15



**For parts and technical support, call the Industrial Coating
Systems Customer Support Center at (800) 433-9319 or
contact your local Nordson representative.**

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Table of Contents

Safety	1	Maintenance	11
Qualified Personnel	1	Spray Gun Flushing	11
Intended Use	1	Nozzle Cleaning	11
Regulations and Approvals	1	Filter Cleaning	11
Personal Safety	2	Lubrication	12
High-Pressure Fluids	2	Troubleshooting	13
Fire Safety	3	Repair	14
Halogenated Hydrocarbon Solvent Hazards ..	4	Preparation	14
Action in the Event of a Malfunction	4	Air Cap and Nozzle Replacement	14
Disposal	4	Needle Replacement	14
Description	5	Needle Cup Seal Replacement	15
Specifications	5	Air Valve Seal Replacement	15
Declaration of Conformity	6	Nozzle Seal Ring Replacement	15
Installation	7	Parts	16
Operation	7	Nozzles	18
Gun Operation	8		
Atomizing Air Adjustment	8		
Fan Pattern Adjustment	8		
Air Cap Adjustment	8		
Filter Selection	9		
Coating Tips	9		
Trigger Spring Adjustment	9		
Atomizing Air Trigger Adjustment	10		

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Trilogy® Air-Assisted Airless Manual Spray Gun

Safety

Read and follow these safety instructions. Task- and equipment-specific warnings, cautions, and instructions are included in equipment documentation where appropriate.

Make sure all equipment documentation, including these instructions, is accessible to persons operating or servicing equipment.

Qualified Personnel

Equipment owners are responsible for making sure that Nordson equipment is installed, operated, and serviced by qualified personnel. Qualified personnel are those employees or contractors who are trained to safely perform their assigned tasks. They are familiar with all relevant safety rules and regulations and are physically capable of performing their assigned tasks.

Intended Use

Use of Nordson equipment in ways other than those described in the documentation supplied with the equipment may result in injury to persons or damage to property.

Some examples of unintended use of equipment include

- using incompatible materials
- making unauthorized modifications
- removing or bypassing safety guards or interlocks
- using incompatible or damaged parts
- using unapproved auxiliary equipment
- operating equipment in excess of maximum ratings

Regulations and Approvals

Make sure all equipment is rated and approved for the environment in which it is used. Any approvals obtained for Nordson equipment will be voided if instructions for installation, operation, and service are not followed.

Personal Safety

To prevent injury follow these instructions.

- Do not operate or service equipment unless you are qualified.
- Do not operate equipment unless safety guards, doors, or covers are intact and automatic interlocks are operating properly. Do not bypass or disarm any safety devices.
- Keep clear of moving equipment. Before adjusting or servicing moving equipment, shut off the power supply and wait until the equipment comes to a complete stop. Lock out power and secure the equipment to prevent unexpected movement.
- Relieve (bleed off) hydraulic and pneumatic pressure before adjusting or servicing pressurized systems or components. Disconnect, lock out, and tag switches before servicing electrical equipment.
- While operating manual spray guns, make sure you are grounded. Wear electrically conductive gloves or a grounding strap connected to the gun handle or other true earth ground. Do not wear or carry metallic objects such as jewelry or tools.
- If you receive even a slight electrical shock, shut down all electrical or electrostatic equipment immediately. Do not restart the equipment until the problem has been identified and corrected.
- Obtain and read Safety Data Sheets (SDS) for all materials used. Follow the manufacturer's instructions for safe handling and use of materials, and use recommended personal protection devices.
- Make sure the spray area is adequately ventilated.
- To prevent injury, be aware of less-obvious dangers in the workplace that often cannot be completely eliminated, such as hot surfaces, sharp edges, energized electrical circuits, and moving parts that cannot be enclosed or otherwise guarded for practical reasons.

High-Pressure Fluids

High-pressure fluids, unless they are safely contained, are extremely hazardous. Always relieve fluid pressure before adjusting or servicing high pressure equipment. A jet of high-pressure fluid can cut like a knife and cause serious bodily injury, amputation, or death. Fluids penetrating the skin can also cause toxic poisoning.

If you suffer a fluid injection injury, seek medical care immediately. If possible, provide a copy of the SDS for the injected fluid to the health care provider.

The National Spray Equipment Manufacturers Association has created a wallet card that you should carry when you are operating high-pressure spray equipment. These cards are supplied with your equipment. The following is the text of this card:



WARNING: Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor that you suspect an injection injury.
- Show him this card
- Tell him what kind of material you were spraying

MEDICAL ALERT—AIRLESS SPRAY WOUNDS: NOTE TO PHYSICIAN

Injection in the skin is a serious traumatic injury. It is important to treat the injury surgically as soon as possible. Do not delay treatment to research toxicity. Toxicity is a concern with some exotic coatings injected directly into the bloodstream.

Consultation with a plastic surgeon or a reconstructive hand surgeon may be advisable.

The seriousness of the wound depends on where the injury is on the body, whether the substance hit something on its way in and deflected causing more damage, and many other variables including skin microflora residing in the paint or gun which are blasted into the wound. If the injected paint contains acrylic latex and titanium dioxide that damage the tissue's resistance to infection, bacterial growth will flourish. The treatment that doctors recommend for an injection injury to the hand includes immediate decompression of the closed vascular compartments of the hand to release the underlying tissue distended by the injected paint, judicious wound debridement, and immediate antibiotic treatment.

Fire Safety

To avoid a fire or explosion, follow these instructions.

- Ground all conductive equipment. Use only grounded air and fluid hoses. Check equipment and workpiece grounding devices regularly. Resistance to ground must not exceed one megohm.
- Shut down all equipment immediately if you notice static sparking or arcing. Do not restart the equipment until the cause has been identified and corrected.
- Do not smoke, weld, grind, or use open flames where flammable materials are being used or stored.
- Do not heat materials to temperatures above those recommended by the manufacturer. Make sure heat monitoring and limiting devices are working properly.

Fire Safety (contd)

- Provide adequate ventilation to prevent dangerous concentrations of volatile particles or vapors. Refer to local codes or your material SDS for guidance.
- Do not disconnect live electrical circuits when working with flammable materials. Shut off power at a disconnect switch first to prevent sparking.
- Know where emergency stop buttons, shutoff valves, and fire extinguishers are located. If a fire starts in a spray booth, immediately shut off the spray system and exhaust fans.
- Shut off electrostatic power and ground the charging system before adjusting, cleaning, or repairing electrostatic equipment.
- Clean, maintain, test, and repair equipment according to the instructions in your equipment documentation.
- Use only replacement parts that are designed for use with original equipment. Contact your Nordson representative for parts information and advice.

Halogenated Hydrocarbon Solvent Hazards

Do not use halogenated hydrocarbon solvents in a pressurized system that contains aluminum components. Under pressure, these solvents can react with aluminum and explode, causing injury, death, or property damage. Halogenated hydrocarbon solvents contain one or more of the following elements:

<u>Element</u>	<u>Symbol</u>	<u>Prefix</u>
Fluorine	F	“Fluoro-”
Chlorine	Cl	“Chloro-”
Bromine	Br	“Bromo-”
Iodine	I	“Iodo-”

Check your material SDS or contact your material supplier for more information. If you must use halogenated hydrocarbon solvents, contact your Nordson representative for information about compatible Nordson components.

Action in the Event of a Malfunction

If a system or any equipment in a system malfunctions, shut off the system immediately and perform the following steps:

- Disconnect and lock out system electrical power. Close hydraulic and pneumatic shutoff valves and relieve pressures.
- Identify the reason for the malfunction and correct it before restarting the system.

Disposal


Dispose of equipment and materials used in operation and servicing according to local codes.

Description

The Trilogy Air-Assisted Airless Manual Spray Gun is a compressed-air operated high-pressure manual spray gun for the application of sprayable fluids at pressures up to 250 bar (3625 PSI).

Specifications

Item	Specification
Fittings	Fluid: 1/2–20 JIC (US), 1/4 NPSM (EU) Air: 1/4 NPT (US), G 1/4 (EU)
Maximum Air Pressure	8 bar (116 psi)
Recommended Operating Air Pressure	1.5–3 bar (21–43.5 psi)
Maximum Material Pressure	250 bar (3625 psi)
Maximum Material Temperature	Without protective gloves: 40 °C (104 °F) With protective gloves: 60 °C (140 °F)
Material Consumption	Depends on nozzle size and pump pressure: Nozzle Size: 0.23 mm Air Pressure: 2 bar (29 psi) Material Pressure: 100 bar (1,450 psi) Viscosity: 45 sec in 4 mm DIN–Becher Material Flow Rate: about 0.26 l/m (0.06 gal/min)
Round Pattern Air Consumption	1 bar (14 psi): 5.0 m ³ /h, 84 l/min. (3 cfm) 2 bar (29 psi): 8.1 m ³ /h, 136.0 l/min. (4.8 cfm) 3 bar (43.5 psi): 11.1 m ³ /h, 185 l/min (6.5 cfm)
Flat Pattern Air Consumption	1 bar (14 psi): 4.3 m ³ /h, 72.0 l/min. (2.5 cfm) 2 bar (29 psi): 6.9 m ³ /h, 115.0 l/min (4.0 cfm) 3 bar (43.5 psi): 9.2 m ³ /h, 154.0 l/min (5.4 cfm)
Round Jet Sound Pressure Level ^(A)	1 bar (14 psi): 67 dB/A 1.5 bar (22 psi): 71 d/Ba 2.5 bar (36 psi): 78 Db/a
Flat Jet Sound Pressure Level ^(A)	1 bar (14 psi): 69 dB/A 1.5 bar (22 psi): 74 d/Ba 2.5 bar (36 psi): 79 Db/a
(A) Sound pressure level measurements and specifications are in accordance with <i>Third regulation to apparatus safety law DIN 45635 part 1/04.84.</i>	

CE	DECLARATION OF CONFORMITY according to the EC Guidelines for Machines
<p>Nordson Corporation, Westlake, Ohio, USA, declares under our sole responsibility that the product: Trilogy Manual Spray Guns Models: AAA, AAA LT, GP, AC, AS and LVLP Gravity Fed, AS and LVLP Siphon Fed</p> <ul style="list-style-type: none">• Conforms with the relevant regulations of the EC machine guidelines (2006/42/EC), including their changes at this time period.• Conforms with further relevant regulations of the EC machine guidelines including their changes at this time period.<ul style="list-style-type: none">• Directive 94/9/EC – Equipment in explosion endangered environments. Use in zone 1; equipment of category 2• The following harmonized standards (or parts from this) were used:<ul style="list-style-type: none">• DIN EN ISO 12100, 2011: Safety of machines• EN 349 Minimum distances to avoid stem presses• DIN EN ISO 3741 Noise formation• ISO 7731 Noise protection regulations• DIN EN 1953, 1998-12 Spraying apparatus for coating materials – Safety requirements• DIN EN 13463-1 Non electric devices for using in explosion endangered areas• The following national technical standards and specifications were used:<ul style="list-style-type: none">• EN 614 Ergonomic formation basic principles <p> Justin Hall Engineering Manager, Industrial Coating Systems</p> <p style="text-align: right;">1 March 2012</p> <p>Nordson Authorized Representative in the EU Contact: Operations Manager Industrial Coating Systems Nordson Deutschland GmbH Heinrich-Hertz-StraBe 42-44 D-40699 Erkrath</p>	

Installation

Connect air and fluid hoses as follows:

- Air hose to handle inlet fitting, thread size 1/4 NPT (US), G 1/4 in. (metric).

Use an air filter/separator to condition your air supply. Clean and dry air enhances spray quality and extends the life of the spray gun.

- Fluid hose to hose connector, thread size 1/2–20 JIC (US), 1/4 in. NPSM (metric).

Use only approved high-pressure fluid hoses. The fluid connection uses a ball-bearing swivel; make sure the connection is tight.

Operation



WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

NOTE: Flush the gun with a solvent or waterborne cleaning solution compatible with your paint to remove any oil and contaminants left over from the manufacturing operations before using the gun for production.

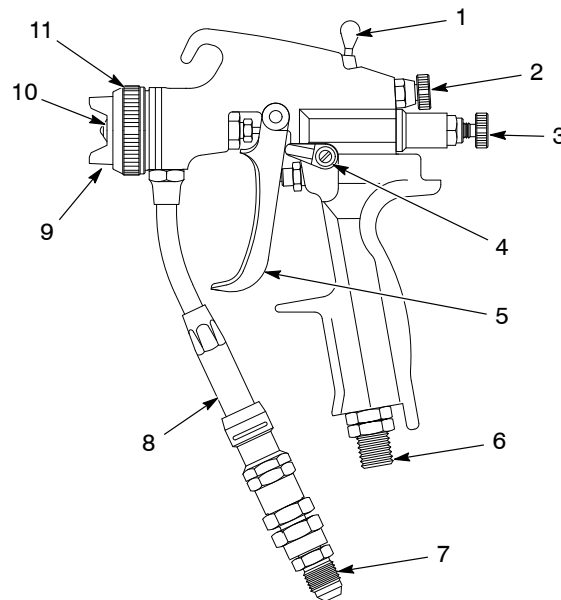


Figure 1 Spray Gun Components

- | | | |
|------------------------------|--------------------------|--------------------|
| 1. Atomizing air regulator | 5. Trigger | 9. Air cap |
| 2. Fan pattern regulator | 6. Air hose connection | 10. Nozzle |
| 3. Trigger spring adjustment | 7. Fluid hose connection | 11. Retaining ring |
| 4. Trigger lock | 8. Fluid filter | |

Gun Operation

1. See Figure 1. Rotate the trigger lock (4) 90 degrees downward.
2. Pull the trigger (5) to the first pressure point. Atomizing air starts flowing.
3. Pull the trigger completely. Fluid starts spraying.
4. When you stop spraying, release the trigger to the first pressure point and hold for 1–2 seconds to prevent paint from collecting at the nozzle.
5. Turn the trigger lock 90 degrees upwards to lock the trigger and prevent unintended triggering and injection injuries.

Atomizing Air Adjustment

See Figure 3. Rotate the atomizing air regulator (1) to the right (clockwise) to decrease air flow; to the left (counterclockwise) to increase air flow.

Fan Pattern Adjustment

See Figure 3. Rotate the fan pattern regulator (2) to the right (clockwise) to decrease air flow; to the left (counterclockwise) to increase air flow. At minimum flow, the pattern is flat; at maximum flow the pattern is round.

Air Cap Adjustment

See Figure 2. The position of the atomization air cap and the nozzle determines the orientation of the fan pattern.

1. Stop the fluid pump and relieve the fluid pressure.
2. Pull the trigger to relieve any remaining pressure in the gun.
3. Rotate the trigger lock 90 degrees upward to lock the trigger.
4. Loosen the air cap retaining ring.
5. Rotate the air cap to the desired position, hold it in position, then tighten the retaining ring cap. The nozzle rotates with the air cap.

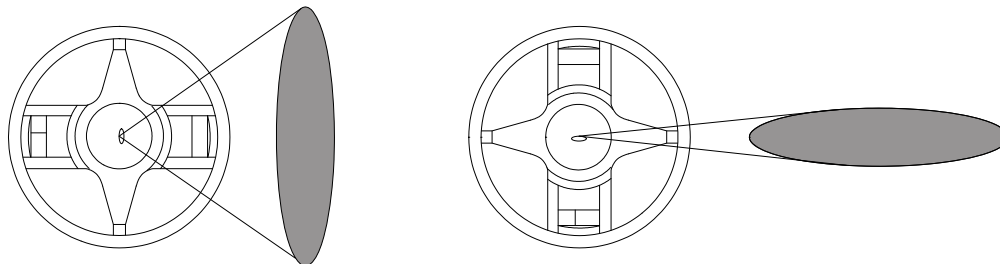


Figure 2 Air Cap Position Determines Fan Pattern Orientation

Filter Selection

The mesh size of the filter should not be bigger than the nozzle size.

Coating Tips

See Figure 3. Use these tips to help you obtain a quality coating:

- Hold the spray gun at a 90 degree angle to the surface being coated. If held at a different angle, the coverage will be uneven and flawed.
- Use your arm, not your wrist, to move the gun parallel to the surface. Do not wave the gun with your wrist.
- Begin moving the spray gun before pulling the trigger. Move the gun back and forth at an even speed. This will ensure even, smooth overlapping patterns without any buildup where the trigger is pulled.
- Release the trigger before stopping arm movements.
- Immerse the gun nozzle in solvent or waterborne cleaning solution during pauses in production to prevent coating material from hardening on the nozzle.

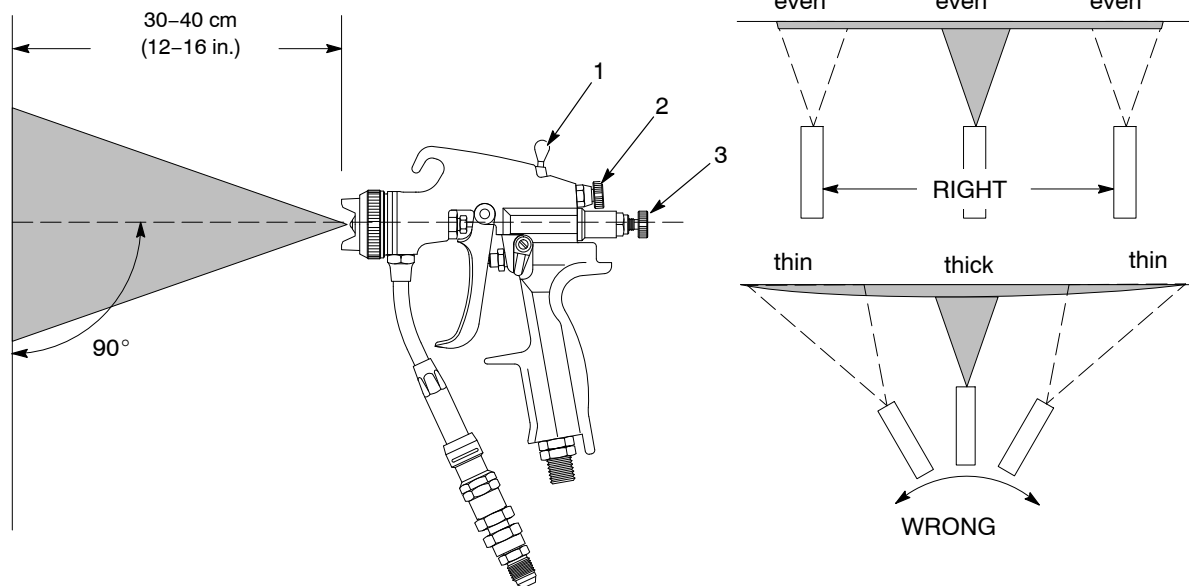


Figure 3 Proper Gun Orientation While Spraying

Trigger Spring Adjustment

See Figure 3. The adjusting screw (3) adjusts the trigger spring pressure to compensate for the fluid pressure: The spring force is adjustable for pressures of approximately 80–250 bar (1160–3625 PSI).

250 bar: Tighten the adjusting screw completely.

80 bar: Unscrew the adjusting screw relieve the spring pressure.

For pressures between 80 and 250 bar, choose a corresponding intermediate adjustment of the screw.

Atomizing Air Trigger Adjustment

See Figure 4. When you pull the trigger, it opens the air valve and starts atomizing air flowing before pulling the needle off the seat and allowing fluid to flow. This pre-air prevents any un-atomized fluid flow from the gun. To change the pre-air flow, use this procedure.

1. Flush the spray gun with a solvent compatible with the paint used, then stop the pump and relieve the fluid pressure.
2. Unscrew the spring cap (44) and pull out the spring and washers (24, 25, 26), and the needle assembly (27, 28, 32).
3. Hold the needle extension (27) with one wrench while loosening the needle carrier (28) with another wrench.
4. Adjust the flow point as follows:
 - Screw out the needle (32) to allow more atomizing air to flow.
 - Screw in the needle to allow less atomizing air to flow.
5. Tighten the needle carrier securely to hold the needle.
6. Re-install the needle, springs and washers, and spring cap.

Maintenance



WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.



WARNING: High pressure fluids are extremely dangerous. Relieve all fluid and air pressure to the gun before performing these procedures.

Spray Gun Flushing

When spraying is done for the day, supply the delivery pump with a solvent or waterborne cleaning solution compatible with the paint used. Flush the gun thoroughly. **Never immerse the spray gun in solvent or cleaning solution.**

Nozzle Cleaning

1. See Figure 4. Stop the pump and relieve the fluid pressure.
2. Pull the trigger to relieve any remaining pressure in the gun.
3. Rotate the trigger lock 90 degrees upward to lock the gun.
4. Remove the air cap retainer, air cap, and nozzle (1, 2, 3). Blow out the nozzle with compressed air, from the front. Clean the nozzle and air cap with a soft-bristle brush and a compatible solvent or waterborne cleaning solution.

NOTE: Use only tools designed for nozzle cleaning to clean the nozzle orifice. Contact your Nordson representative for nozzle cleaning kits.

5. Re-install the nozzle into the air cap, making sure the pin in the air cap slides into the groove in the nozzle. Install the air cap on the gun, and secure it with the retainer.
6. Adjust the air cap orientation and hold it while tightening the retainer securely by hand.

Filter Cleaning

The filter should be cleaned periodically to prevent paint residue from hardening inside the filter and housing. The frequency of cleaning depends on the type of paint used.

1. Stop the pump and relieve the fluid pressure.
2. See Figure 4. Hold the filter base (18) with one wrench while you unscrew the hose connector (16) with another wrench.
3. Unscrew the filter (17) from the filter base (18).
4. Clean the filter with a compatible solvent and soft brush. Do not use a wire brush as it will damage the filter mesh.

Filter Cleaning *(contd)*

5. Flush the hose connector with solvent. Make sure the O-ring (18A) in the connector is undamaged and correctly installed.
6. Screw the filter carefully back into the filter base.
7. Screw the hose connector back onto the filter base and tighten securely.

Lubrication

See Figure 4. The atomizing air regulator O-ring (11), air seal (39), and trigger axle (13) should be lubricated regularly with silicone-free oil or silicone-free grease.

Troubleshooting



WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

These troubleshooting procedures cover only the most common problems. If you cannot solve a problem with the information given here, contact your local Nordson representative for help. See Figure 4 for parts.

Problem	Possible Cause	Corrective Action
1. Decrease in paint flow while spraying	Filter clogged.	Clean the filter. Refer to <i>Filter Cleaning</i> on page 11.
	Paint viscosity too high.	Thin out the paint to the proper viscosity.
	Fluid pressure too low.	Increase fluid pressure.
2. Irregular fan pattern	Nozzle clogged.	Replace the nozzle.
	Filter clogged.	Clean the filter. Refer to <i>Filter Cleaning</i> on page 11.
	Nozzle too wide or worn.	Replace the nozzle.
	Paint viscosity too high.	Thin out the paint to the proper viscosity.
	No atomizing air, or not enough.	Increase atomizing air flow. Check air supply.
	Atomizing air pressure too high or too low.	Adjust air supply pressure. Refer to <i>Specifications</i> on page 5.
	Air cap holes clogged.	Clean air cap with solvent and a soft brush. Do not use a wire brush.
3. Spray gun still sprays when trigger released	Seal or needle ball worn.	Replace parts (3a, 32).
	Needle spring worn.	Replace spring (25).
	Packing gland too tight, needle cannot be moved by spring to close valve.	Loosen packing gland (29). If problem continues replace needle cup seals.
	Needle and seal dirty.	Clean needle, replace seal (3a, 32).
4. Paint leaking from packing gland	Packing gland not tightened enough.	Tighten packing gland (29).
	Needle cup seals worn.	Replace cup seals and O-rings (33, 34).
5. Spray gun leaking air	Air valve spring weak.	Replace spring (36).
	Air valve seal worn.	Replace seal (39).
	Air valve defective.	Replace valve (37).

Repair

Preparation



WARNING: High Pressure Hazard! Always stop the pump and relieve system fluid pressure before attempting to repair the spray gun. Failure to observe this warning could result in severe personal injury or even death.

1. Flush the spry gun with solvent or waterborne cleaning solution.
2. Stop the pump and relieve the fluid pressure. Disconnect the fluid hose.
3. Shut off the air supply and relieve the air pressure. Disconnect the air hose.

Air Cap and Nozzle Replacement

1. See Figure 4. Remove the air cap retainer, air cap, and nozzle (1, 2, 3).
2. Push the nozzle (3) out of the air cap (2).
3. Remove the seal (3a) from the nozzle.
4. Immerse the nozzle in solvent. If necessary, use an ultrasonic cleaner to clean the nozzle. Use only tools designed for nozzle cleaning to clean the nozzle orifice. Contact your Nordson representative for nozzle cleaning kits.
5. Install the seal on the cleaned nozzle.
6. Install a new or clean nozzle in the air cap.
7. Install the air cap on the gun. Adjust the air cap orientation and hold it while tightening the retainer.

Needle Replacement

1. See Figure 4. Unscrew and remove the spring cap (44), spring, and washers (24, 25, 26).
2. Loosen the needle packing gland (28).
3. Pull the needle assembly (27, 28, 32) out of the gun.
4. Install a new needle assembly in the gun, install the springs and washers, then screw the spring cap back into the gun and tighten securely.
5. Tighten the needle packing gland. If paint leaks from the packing gland when the gun is put back into service, tighten the packing gland further.

Needle Cup Seal Replacement

1. See Figure 4. Remove the needle as described in *Needle Replacement*.
2. Remove the trigger screw, axle, and trigger (12, 13, 14).
3. Unscrew the chamber nut (22) and slide it off the packing gland (29).
4. Pull the entire atomizing chamber (21) out of the front of the gun body. Note that in the gun body are one small black O-ring and two larger white seals (6, 7). Inspect and replace them if damaged.
5. Unscrew the the packing gland (29) from the atomizing chamber. Remove the gland collar (30), then pull the O-rings (33) and cup seals (34) out of the gun body.
6. Install new cup seals and O-rings, gland collar, and packing gland in the gun body. Leave the packing gland loose until the needle is installed.
7. Make sure the gun body O-ring and two seals (6, 7) are installed correctly. Install the atomizing chamber on the gun body.
8. Install the chamber nut over the packing gland and thread it onto the atomizing chamber. Tighten the nut securely.
9. Install the trigger on the gun.
10. Install the needle into the gun as described in *Needle Replacement*.

Air Valve Seal Replacement

1. See Figure 4. Remove the trigger screw, axle, and trigger (12, 13, 14).
2. Unscrew the valve packing gland (40).
3. Pull out the old valve seal (39) and replace it with a new one.
4. Install the valve packing gland and tighten by hand.
5. Turn on the air supply. Tighten the packing gland further if it leaks air.

Nozzle Seal Ring Replacement

1. See Figure 4. Remove the air cap retainer, air cap, and nozzle (1, 2, 3).
2. Loosen the packing gland (29).
3. Unscrew the spring cap (44) and remove the spring and washers (24, 25, 26).
4. Pull the needle assembly (27, 28, 32) out of the gun. Inspect the needle ball and replace the needle if damaged.
5. Unscrew the seal retaining screw (4) with a 10-mm socket wrench, and remove the aluminum seal ring (5).
6. Install a new seal ring and the seal retaining screw.
7. Install the needle assembly, springs and washers, and spring cap.
8. Tighten the packing gland.
9. Install the air cap and nozzle and secure with the air cap retainer.

Parts

To order parts, call the Nordson Industrial Coating Systems Customer Support Center at (800) 433-9319 or contact your local Nordson representative. For customers outside the USA, refer to the list of Nordson Global Locations at www.nordson.com.

Refer to the parts illustration and parts lists on the following pages.

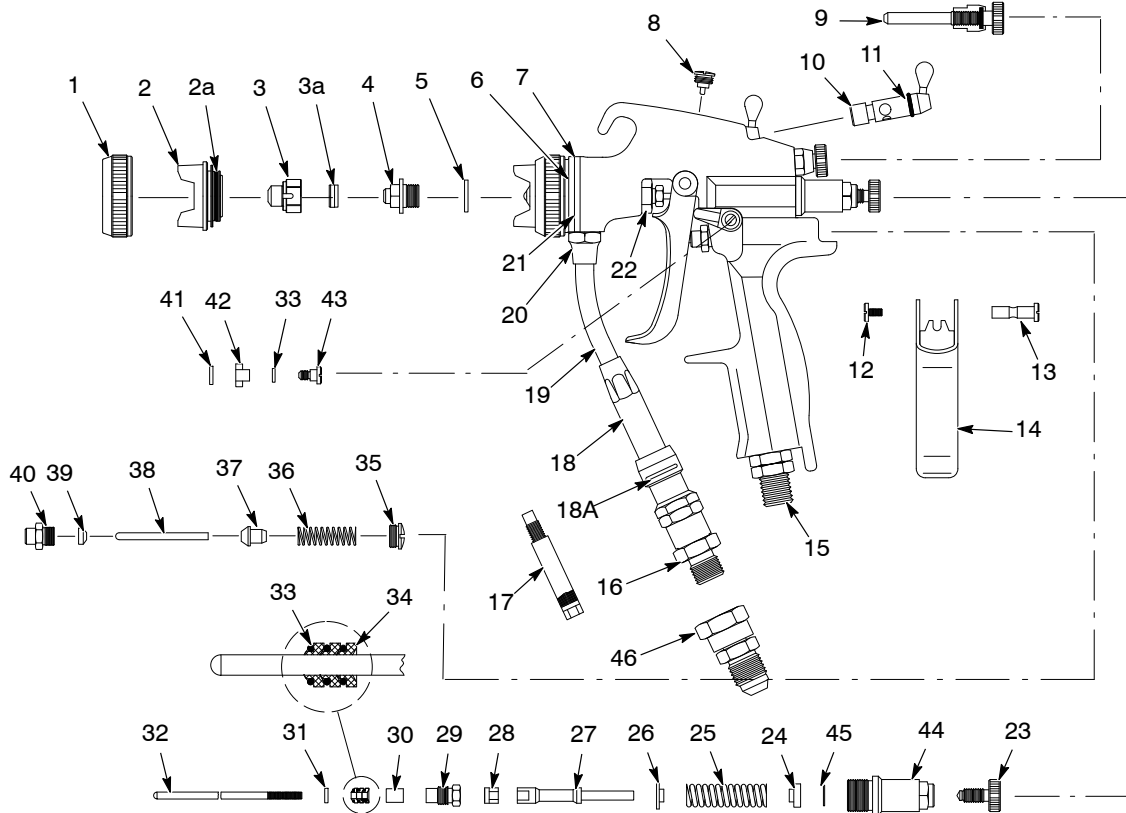


Figure 4 Trilogy AAA Spray Gun Parts

Item	Part	Description	Quantity	Note
-	1600761	Gun, manual, NES, Trilogy AAA	1	
-	1600793	Gun, manual, NES, Trilogy AAA, metric	1	
1	1601010	• Retainer, air cap, AAA, Trilogy NES	1	
2	1600913	• Air cap, AAA, Trilogy NES	1	
2a	-----	• Seal ring	1	A, B
3	1600878	• Nozzle, 0.33 mm, 50 degree, Trilogy NES	1	C
3a	-----	• Seal	1	A, B
4	-----	• Screw, seal retaining	1	B
5	-----	• Seal ring, aluminum	1	A, B
6	-----	• O-ring, 3.5 x 1.0 mm, Viton	1	A, B
7	-----	• Seal	2	A, B
8	-----	• Screw, locking	1	B
9	1601143	• Screw, fan adjustment, AAA, Trilogy NES	1	
10	-----	• Regulator, air	1	B

Continued...

Item	Part	Description	Quantity	Note
11	-----	• O-ring, 7.0 x 1.0 mm, Viton	1	A, B
12	-----	• Screw, flat head	1	B
13	-----	• Axle, trigger	1	B
14	1601012	• Trigger, AAA, Trilogy NES	1	
15	1600867	• Connector, air, 1/4 G, AAA, Trilogy NES	1	E
15	1600940	• Connector, air, 1/4 NPT, AAA, Trilogy NES	1	E
16	1601013	• Connector, fluid, 1/4 NPSM, AAA, Trilogy NES	1	
17	1600992	• Filter, 295 mesh / 50 micron, red, AAA	1	D
17	1600993	• Filter, 150 mesh / 100 micron, yellow, AAA	1	D
17	1600994	• Filter, 80 mesh / 180 micron, white, AAA	1	D
18	1601008	• Base, filter, AAA, Trilogy NES	1	
18A	-----	• O-ring, 12 x 1.5 mm, Viton	1	A
19	1601007	• Tube, fluid, upper, AAA, Trilogy NES	1	
20	1601006	• Nut, fluid tube, AAA, Trilogy NES	1	
21	1601009	• Chamber, atomizing, AAA, Trilogy NES	1	
22	1601001	• Nut, chamber, AAA, Trilogy NES	1	
23	1600997	• Screw, needle tension, AAA, Trilogy NES	1	
24	1600996	• Washer, small, needle, AAA, Trilogy NES	1	
25	-----	• Spring, compression	1	B
26	1600995	• Washer, large, needle, AAA, Trilogy NES	1	
27	1601005	• Extension, needle, AAA, Trilogy NES	1	
28	1601004	• Carrier, needle, AAA, Trilogy NES	1	
29	1601003	• Gland, packing, AAA, Trilogy NES	1	
30	1601002	• Collar, gland, AAA, Trilogy NES	1	
31	1601011	• Seal, packing, AAA, Trilogy NES	1	
32	1600914	• Needle, AAA, Trilogy NES	1	B
33	1600847	• O-ring, 4.0 x 1.2 mm, Viton	4	A, B
34	-----	• Seal, cup, inverted	3	A, B
35	-----	• Screw, locking	1	B
36	-----	• Spring, compression	1	B
37	-----	• Valve, air	1	A, B
38	-----	• Pin	1	B
39	-----	• Seal, valve, packing gland	1	A, B
40	-----	• Valve, packing gland	1	B
41	1600868	• Washer	1	
42	1600999	• Lock, trigger, AAA, Trilogy NES	1	
43	1600957	• Screw, trigger lock, AAA, Trilogy NES	1	
44	1601000	• Cap, spring, AAA, Trilogy NES	1	
45	1600998	• Prong, ring, AAA, Trilogy NES	1	
46	1601887	• Connector, straight, 1/1-20 JIC x 1/4 G	1	

NOTE A: Included in 1601014 Kit, seal, AAA, Trilogy NES. This kit is also included in the 1601015 repair kit.

B: Included in 1601015 Kit, repair, AAA, Trilogy NES. This kit also includes the 1601014 seal kit.

C: Refer to the *Nozzles* list for additional nozzles.

D: Always use a filter with a mesh smaller than the nozzle size.

E: Order the correct connector for your application.

Nozzles

Part	Description	Note
1600878	Nozzle, 0.33 mm 50 degree, AAA, Trilogy	A
1600879	Nozzle, 0.23 mm 40 degree, AAA, Trilogy	A
1600880	Nozzle, 0.23 mm 50 degree, AAA, Trilogy	A
1600881	Nozzle, 0.28 mm 40 degree, AAA, Trilogy	A
1600882	Nozzle, 0.28 mm 50 degree, AAA, Trilogy	A
1600883	Nozzle, 0.38 mm 50 degree, AAA, Trilogy	A
1600884	Nozzle, 0.38 mm 60 degree, AAA, Trilogy	A
1600885	Nozzle, 0.78 mm 50 degree, AAA, Trilogy	A
1600886	Nozzle, 0.78 mm 60 degree, AAA, Trilogy	A

NOTE A: For nozzle cleaning tools and kits, contact your Nordson representative.

