# A7A Lancing Spray Guns

Customer Product Manual
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– English –
Issued 02/25

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

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NORDSON CORPORATION • 100 NORDSON DRIVE, AMHERST, OHIO 44001 • USA

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# Change Record

| Revision | Date | Change |
|---|---|---|
| 03 | 9/17 | Added transducer to parts list. |
| 04 | 8/18 | Revised ATEX label. |
| 05 | 8/18 | Added new part number for O-ring lubricant. |
| 06 | 05/22 | Updated supply and return callouts. |
| 07 | 05/22 | Updated approvals information. |
| 08 | 02/25 | Updated Cartridge P/N to 1039171 |
| 09 | 02/25 | Updated Manufacturer Address |
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# Safety

## Introduction

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 them this card
- Tell them 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.

# Description

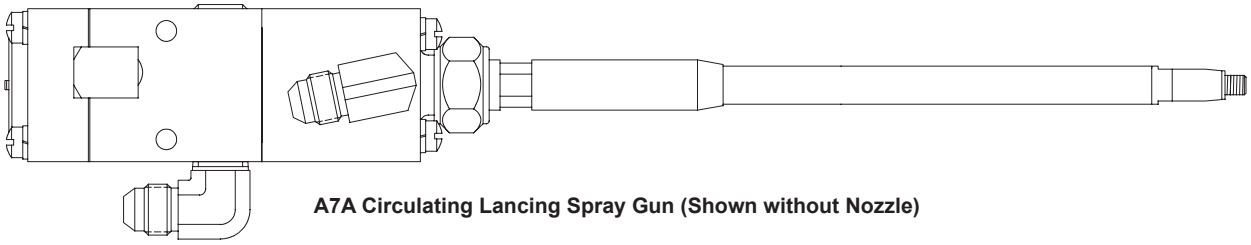
## Introduction

The Nordson A7A Lancing Spray Guns are air-operated, high-cycle, airless spray guns used primarily in the aerosol container industry. The guns are available in a standard model, the A7A Circulating Lancing Spray Gun, and in a non-circulating iTRAX® compatible model, the A7A Spray Monitor (SM) Lancing Spray Gun.

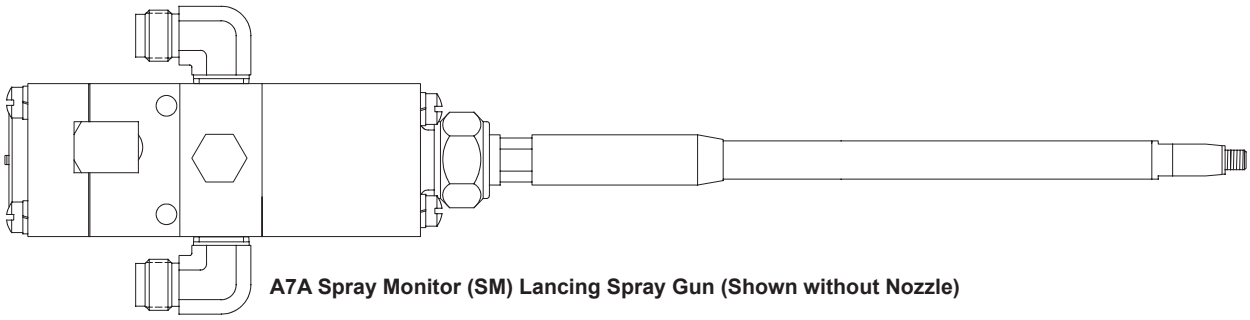
The guns are designed to spray solventborne or waterborne coatings. They are constructed of stainless steel with a 293 mm (11.53 in.) extension.

An optional air-release valve can be used for quick gun response over long distances.

**NOTE:** These spray guns use Nordson Tube Lining Cross-Cut nozzles. The nozzles are optional and must be ordered separately. Contact your Nordson representative for nozzles suited for your application.



**A7A Circulating Lancing Spray Gun (Shown without Nozzle)**



**A7A Spray Monitor (SM) Lancing Spray Gun (Shown without Nozzle)**

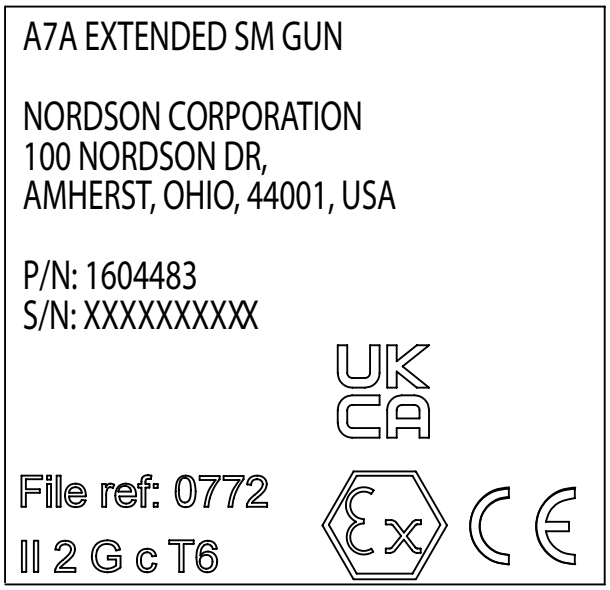
Figure 1 A7A Lancing Spray Guns

## Specifications

| Specification | 170496<br>A7A Circulating<br>Lancing Spray Gun | 1604483<br>A7A SM Lancing<br>Spray Gun |
|---|---|---|
| Extension length: | 293 mm (11.53 in.) | 293 mm (11.53 in.) |
| Gun Body Dimensions:<br>Length<br>Width<br>Height | <br>103 mm (4.07 in.)<br>38 mm (1.5 in.)<br>38 mm (1.5 in.) | <br>103 mm (4.07 in.)<br>38 mm (1.5 in.)<br>64 mm (2.52 in.) |
| Weight | 1180 grams (2.6 lbs) | 1270 grams (2.8 lbs) |
| Maximum Air Pressure | 8.27 bar (120 psi) | 8.27 bar (120 psi) |
| Minimum Air Pressure | 2.75 bar (40 psi) | 2.75 bar (40 psi) |
| Maximum Fluid Pressure | 117 bar (1700 psi) | 117 bar (1700 psi) |
| Nozzle Mounting Threads | #10- 32 | #10- 32 |

## Equipment Labels

### A7A SM Lancing Spray Gun EX Markings (P/N 1604483)

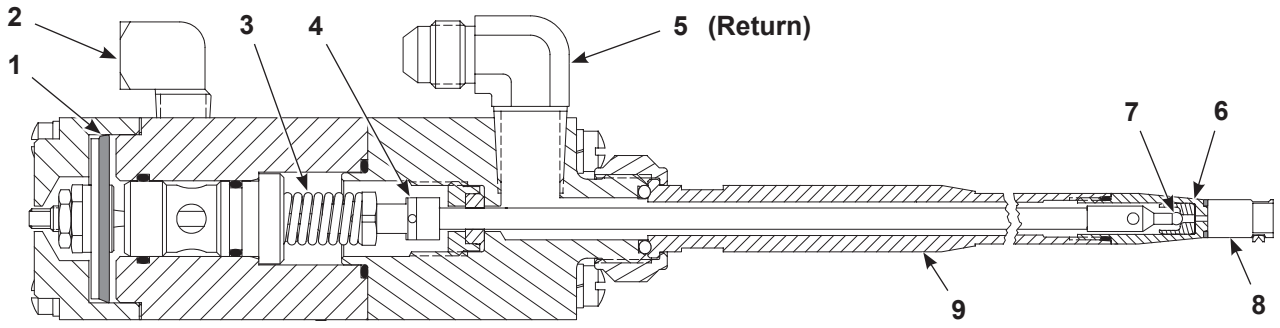


## Operation

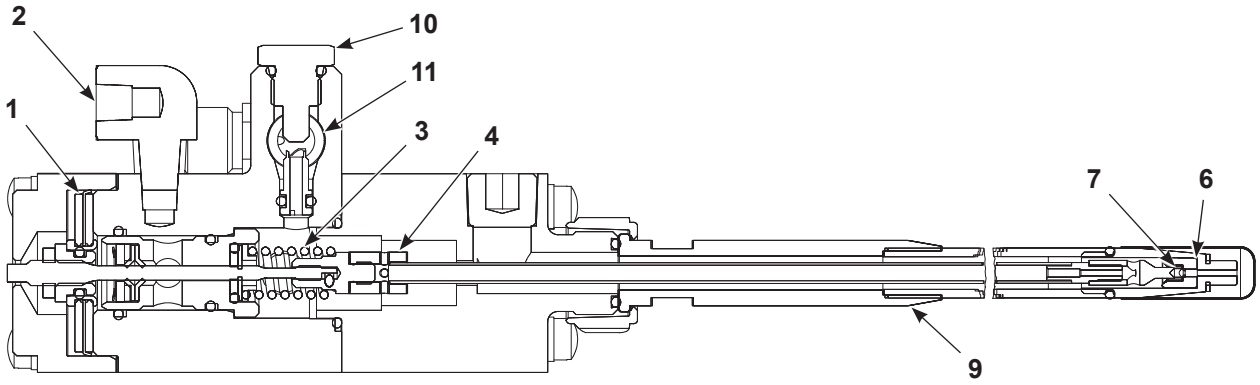
See Figure 2. When the spray guns are open, compressed air enters the air inlet fitting (2) and lifts the piston (1) and shaft (4), compressing the packing cartridge spring (3) and pulling the ball (7) off the seat (6). When the air pressure is removed, the packing cartridge spring forces the ball back into the seat and stops the flow of coating material.

When the standard A7A spray gun is closed, coating material circulates through the fluid fitting (5), through the shaft (4), around the seat (6), then back to the return fitting.

When the A7A SM Lancing Spray Gun is closed, coating material circulates through the gun body only.




**A7A Circulating Lancing Spray Gun (Shown with nozzle)**




**A7A SM Lancing Spray Gun**
**(Shown without nozzle; fluid fittings and transducer plugs not shown)**

Figure 2 A7A Lancing Spray Gun Components and Operation

1. Piston
2. Air inlet fitting
3. Packing cartridge spring
4. Shaft
5. Fluid fittings
6. Seat
7. Ball
8. Nozzle (Optional)
9. Barrel
10. CO-plate plug
11. CO-plate (Optional)

# Installation

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

**WARNING:** Before installing the gun, relieve fluid pressure and shut off electrical power.

**WARNING:** Install an approved pressure relief device set at 117 bar (1700 psi) in the fluid line to the spray gun. Fluid supply hoses must have a minimum burst pressure of 117 bar (1700 psi).

## Recommended Circuit for A7A Circulating Lancing Spray Gun

See Figure 3 for a typical spray gun system, single gun. Review this recommended plumbing circuit before installing any parts into the system. Additional customer-supplied parts may be required.

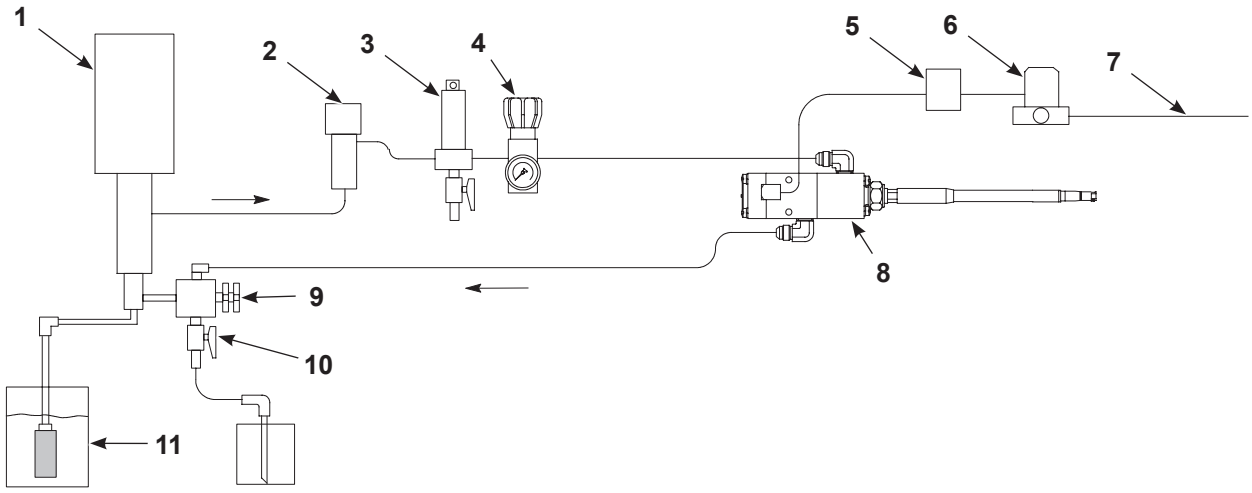



Figure 3 Typical Spray Gun Installation (A7A Circulating Lancing Spray Gun)

1. CP pump (or other with similar output)
2. Heater
3. Fluid filter
4. Fluid pressure regulator
5. Solenoid valve
6. Air pressure regulator
7. Air supply line
8. A7A spray gun
9. Circulation valve
10. Drain valve
11. Coating supply

## Recommended Circuit for A7A SM Lancing Spray Gun

See Figure 4 for a typical dual or multiple spray gun system using Spray Pressure Control. Review this recommended plumbing circuit before installing any parts into the system. Additional customer-supplied parts may be required..

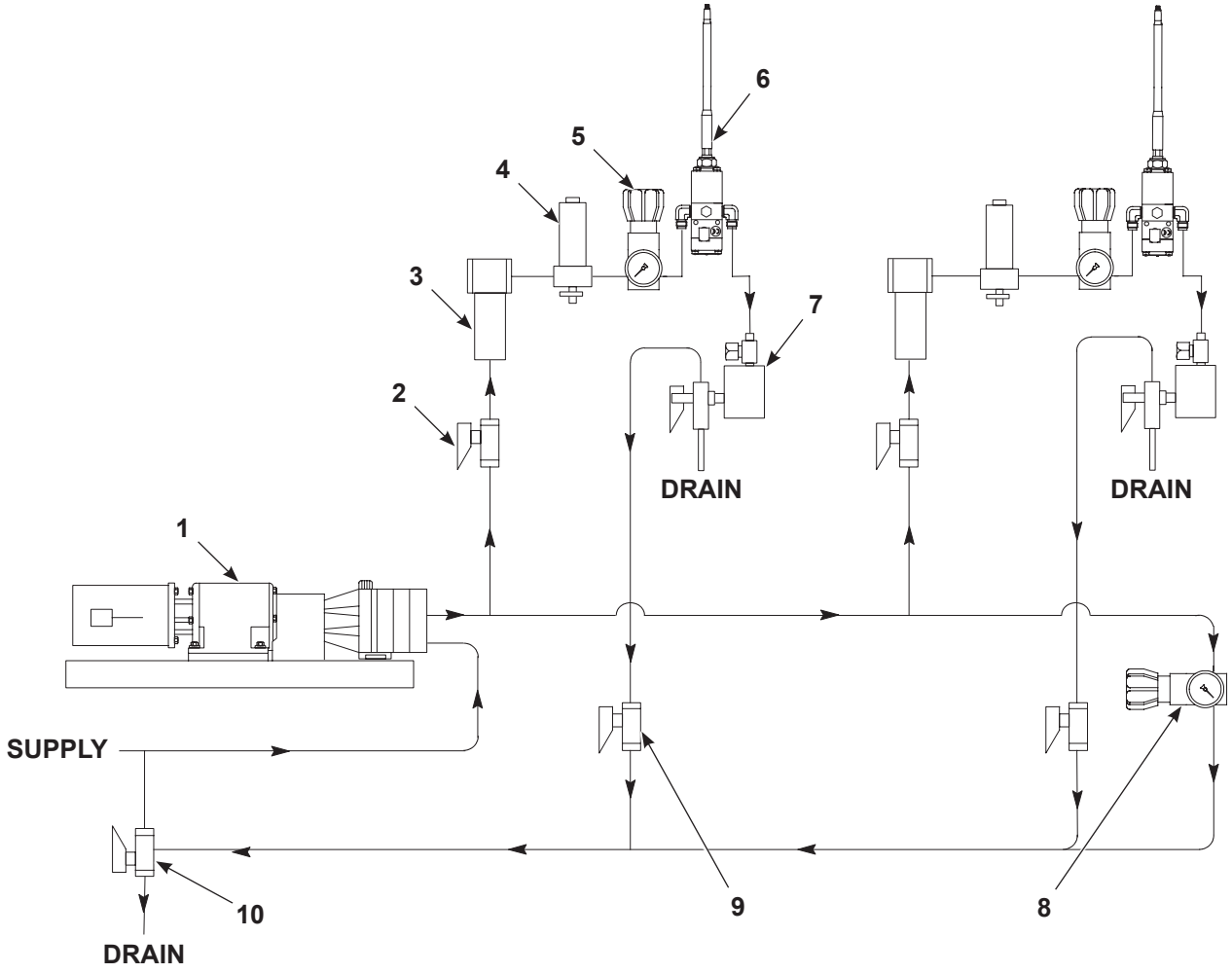



Figure 4 Typical Spray Gun Installation (A7A SM Lancing Spray Gun)

1. EP Pump (or other with similar output)
2. Two-way ball valve
3. Heater
4. Filter
5. Pressure-reducing regulator
6. Spray gun
7. SPC manifold assembly
8. Back pressure regulator
9. Two-way ball valve
10. Three-way ball valve (drain)

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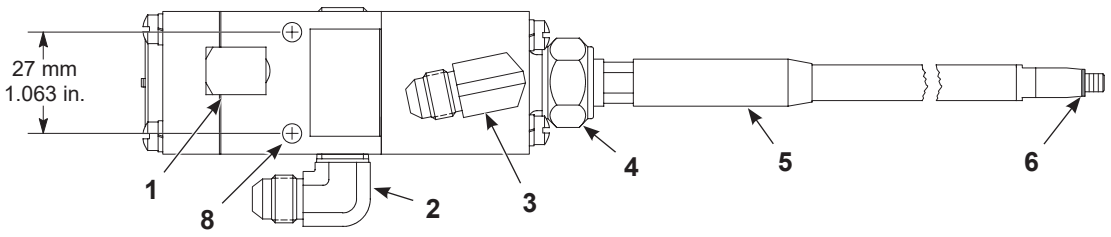
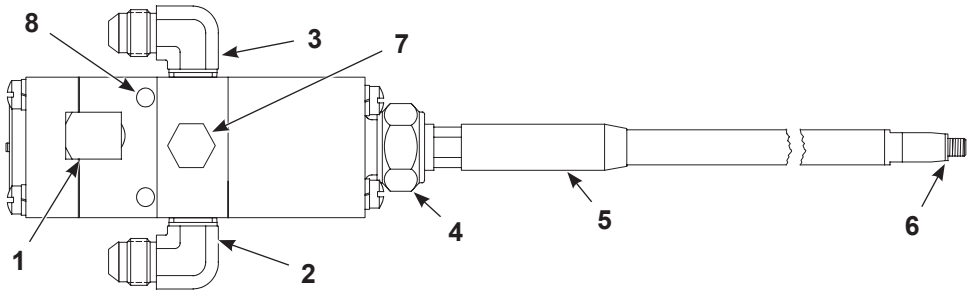



A7A Circulating Lancing Spray Gun (Shown without Nozzle)




A7A SM Lancing Spray Gun (Shown without Nozzle)

Figure 5 Mounting and Connections

1. 1/8 NPT fitting (air)
2. 1/2-20 JIC fitting (return)
3. 1/2-20 JIC fitting (supply)
4. Barrel nut
5. Barrel
6. Nylon washer
7. CO-Plate plug and O-ring
8. Mounting holes

**NOTE:** Fluid fittings (2, 3) for A7A SM Lancing Spray Gun can be used for either supply or return.

## Mounting

Use two #10 screws to mount the gun.

## Fluid Connections

**CAUTION:** Do not overtighten the fluid fittings. Overtightening may cause damage to the gun body.

See Figure 5. Connect 1/2-20 JIC fluid hoses to the 1/2-20 JIC fluid fittings (2, 3).

## Air Connection

**NOTE:** Do not use an air hose any longer than necessary between the gun and the solenoid. The longer the air hose, the longer the pneumatic delays, causing slow on and off cycling. Connect the solenoid directly to the air inlet, if possible.

See Figure 5. Connect an electro-pneumatic solenoid to the 1/8 in. NPT fitting (1).

## Nozzle Installation

The nozzles used with this gun are Tube Lining Nozzles. If not already installed, install a nylon washer (6) on the end of the barrel (5), then screw the nozzle on and tighten it securely. Loosen the barrel nut (4) and rotate the barrel to point the nozzle in the desired direction.

## Pressure Transducer

When the A7A SM Lancing Spray Gun is installed as part of a iTRAX spray monitor system, install a pressure transducer in the gun body to monitor fluid pressure at the gun. Refer to *Pressure Transducer* on page 19 for transducer ordering information.

Refer to the pressure transducer instruction sheet for more installation instructions.

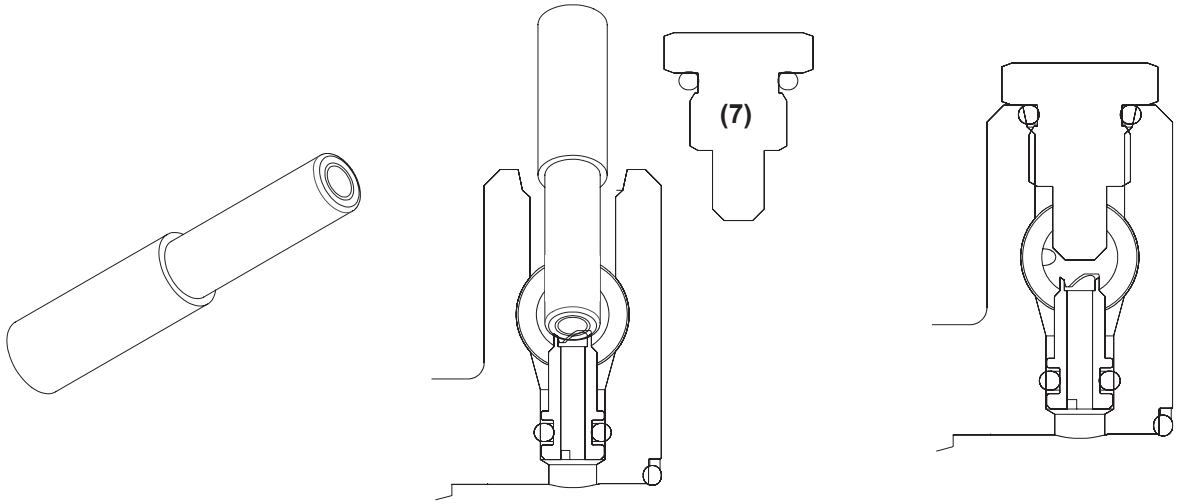
There are two plugged ports on opposing sides of the gun body for installing a pressure transducer. Either port can be used. Remove the plug and O- ring from the desired port and install the pressure transducer. Tighten the transducer securely.

## CO-Plate

When the A7A SM Lancing Spray Gun is installed as part of a iTRAX spray monitor system, install a carbide CO-plate in the gun body to produce a controlled pressure drop when the gun is spraying. Refer to the *CO-Plate Selection Chart* on page 20 for CO-plate ordering information.

## CO-Plate Installation

1. (See Figure 5.) Remove the CO-plate plug and O-ring (7) from the top of the circulation block.
2. (See Figure 6.) Loosely thread the CO-plate onto the CO-plate puller tool shipped with the spray gun.
3. Insert the puller into the port and push it to seat the O-ring. Partially unscrew the puller from the CO-plate then push it again to make sure the CO-plate is seated.
4. Unscrew the puller from the CO-plate.
5. Reinstall the CO-plate plug and O-ring and tighten securely.




**CO-Plate Puller Tool** **Installation of CO-Plate** **Fully Installed CO-Plate**

Figure 6 CO-Plate Installation

# 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.

| Problem | Possible Cause | Corrective Action |
|---|---|---|
| **1. Gun leaks around nozzle** | Dirty or damaged nylon washer | Relieve system fluid pressure. Remove the nozzle and clean or replace the nylon washer. |
| **2. Gun leaks around barrel nut** | Dirty or damaged metal sealing surfaces | Relieve system fluid pressure. Remove the barrel nut and clean or replace the barrel. |
| **3. Gun leaks through the weep hole in the gun body directly behind the fittings** | Worn packing cartridge | Replace the packing cartridge and seals. Refer to Parts for the seal kit and packing cartridge part numbers. |
| **4. Gun spits** | Dirty or worn ball tip or seat | Relieve system fluid pressure. Clean or replace the ball tip and seat. |
| | Long trigger air lines | Mount the solenoid valve on or as close as possible to the gun. |
| | Air trapped in fluid system | Purge the air from the fluid system. |
| **5. On/Off cycle response is poor or non-existent** | Air piston worn or out of adjustment | Adjust or replace the air piston assembly. |
| | Low pressure to the air solenoid | Increase the air pressure to 2.7–4.13 bar (40- 60 psi). |
| | Long trigger air lines | Mount the solenoid on or as close as possible to the gun. |
| | High fluid pressure | Reduce the fluid pressure at the pump. The maximum pressure allowed is 117 bar (1700 psi). |

# Repair

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

## Preparation

1. Flush the gun with a compatible solvent before you remove it from the system.

**WARNING:** Relieve system fluid pressure before disconnecting the fluid hoses. Failure to observe this warning may result in serious injury or death.

2. Relieve both fluid and air pressure to the gun.
3. Disconnect the air and fluid lines and remove the spray gun from its mounting.

## Disassembly

See Figure 7 and Figure 8.

1. Remove the nozzle and nylon washer (21).
2. Remove the screws (20), lockwashers (4), and air cylinder (19).
3. Remove the gasket (18).
4. Use the wrenches provided with the gun to unscrew the lock nut (6A).
5. Use the wrenches to unscrew the piston assembly seal nut (6B).
6. Remove the piston assembly (6).
7. Unscrew the barrel nut (10) and remove the barrel (5).
8. Discard the O- ring (22) in the extension body.
9. Insert a small screwdriver through the hole in the ball tip (12) and unscrew the ball tip from the shaft (11).
10. Remove the screws (3) and lockwashers (4). Carefully pull the extension body (2) off the shaft.
11. Standard A7A gun only - Remove the seal retainer (14) and seal (13) from the extension body with a screwdriver.
12. Unscrew the shaft (11) from the spring end of the packing cartridge (8).
13. Push the packing cartridge out of the gun body (16).
14. Remove the O-ring (17) from the gun body.
15. Unscrew the old seat (12) from the barrel. Install a new seat and O-ring (12A). Tighten the seat to 1.7- 2.2 N•m (15- 20 in. lbs).

## Assembly

**NOTE:** Use only water-based lubricant on the O-rings and seals.

1. Install a new O-ring (17) in the gun body (16).
2. Coat the packing cartridge (8) with a small amount of lubricant and install it in the gun body.
3. Thread the shaft (11) onto the packing cartridge and tighten it securely.
4. Standard A7A gun only - Install the seal (13) and the seal retainer (14) into the extension body (2). Tighten the seal retainer with a screwdriver.
5. Install a new O-ring (15) on the extended gun body.
6. Install the extended body over the shaft and secure it to the gun body with the screws (3) and lockwashers (4).
7. Install the new ball tip (12) on the shaft.
8. Install the new seat (12) on the barrel (5).
9. Install a new O- ring (22) on the extension body.
10. Install the barrel over the shaft and onto the extension body. Tighten the barrel nut (10) securely.
11. Install the piston assembly (6) on the packing cartridge stem. Do not tighten the lock nut (6A).
12. Screw the piston assembly onto the packing cartridge stem clockwise until it comes to rest against the gun body. Turn the piston assembly counter-clockwise 11/2 turns.
13. Apply a drop of thread-locking compound to the lock nut threads. Hold the packing cartridge stem with a wrench and tighten the lock nut.
14. Install the air cylinder gasket (18) and air cylinder (19). Secure the cylinder with the screws (20) and lockwashers (4).

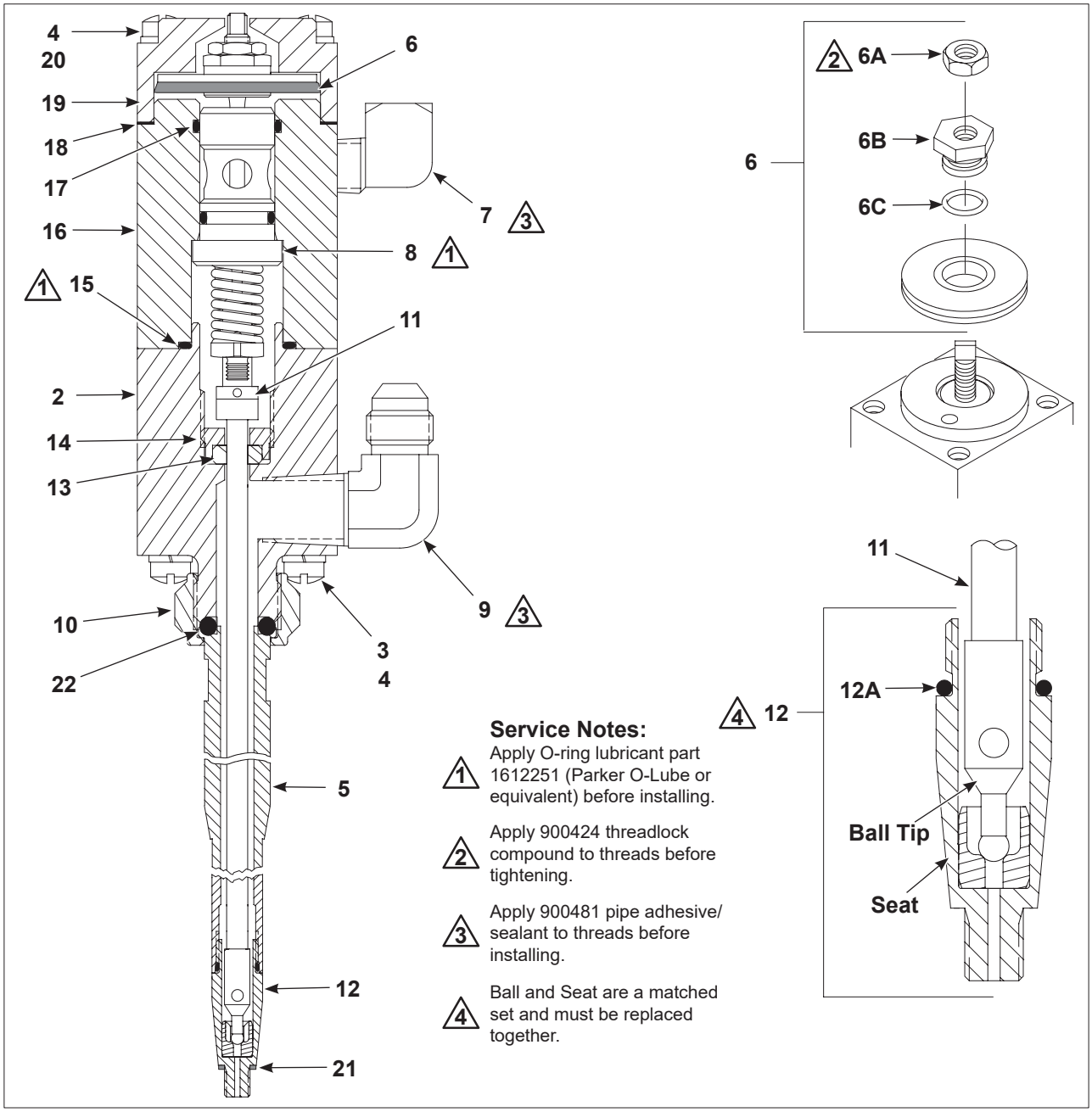



Figure 7 Repair (A7A Circulating Lancing Spray Gun)

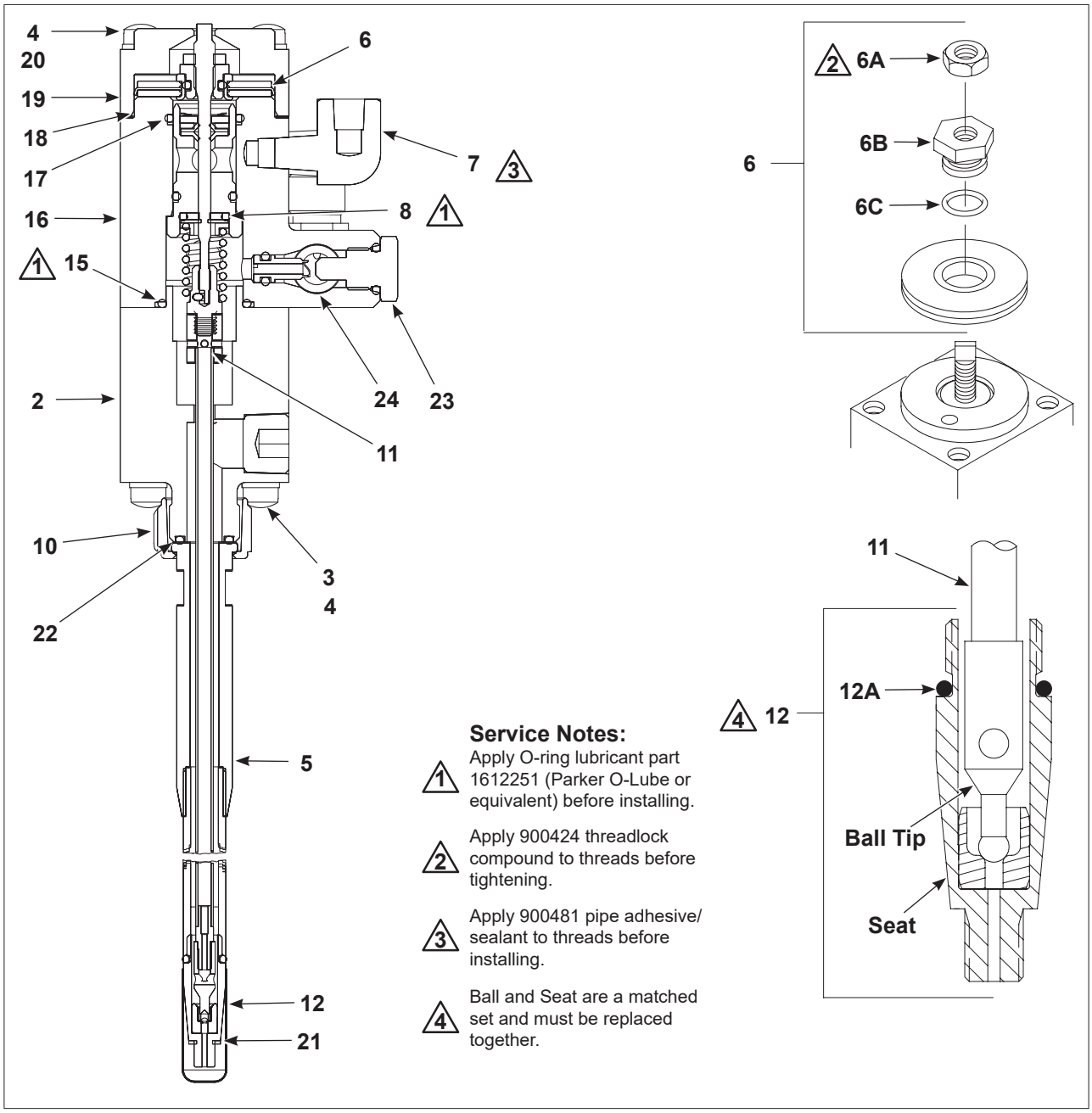



Figure 8 Repair (A7A SM Lancing Spray Gun)

2. Extension body
3. Screws (2 in. long)
4. Lockwashers
5. Barrel
6. Piston assembly
6A. Lock nut
6B. Seal nut
6C. O-ring (brown Viton)
7. Elbow
8. Packing catridge
9. Elbows (stainless steel)
10. Barrel nut
11. Shaft
12. Ball and seat module
12A. O-ring (EPR)
13. Seal (PTFE)
14. Seal retainer
15. O-ring (EPR)
16. Gun body
17. O-ring (EPR)
18. Gasket
19. Cylinder
20. Screws (1 in. long)
21. Nylon washer
22. O-ring (EPR)
23. CO-plate plug
24. CO-plate

# Parts

See Figure 9 and Figure 10.

| Item | Part | Part | Description | Quantity | Note |
|---|---|---|---|---|---|
| — | 170496 | - - - - - - | GUN, A7A, circ, 11.53 (293 mm) | 1 | |
| — | - - - - - - | 1604483 | GUN, A7A SM Lancing Spray Gun, 11.53 (293 mm) | 1 | |
| 1 | 703191 | 703191 | • PLUG, pipe, socket, flush, stainless steel, 1/4 in. NPT | 1 | |
| 2 | 1604708 | 1604708 | • BODY, extension | 1 | |
| 3 | 981127 | 981127 | • SCREW, fil, 10- 32 x 2.00 in., steel, zinc | 6 | |
| 4 | 983120 | 983120 | • WASHER, lock, split, #10, steel, nickel | 8 | |
| 5 | 179431 | 179431 | • BARREL, 11.53 (293 mm) | 1 | |
| 6 | - - - - - - | - - - - - - | • PISTON, locknut, assembly | 1 | B |
| 6A | - - - - - - | - - - - - - | • • NUT, lock, 10- 32, upper | 1 | B |
| 6B | - - - - - - | - - - - - - | • • NUT, seal lock | 1 | B |
| 6C | - - - - - - | - - - - - - | • • O-RING, Viton, 0.208 in. ID x 0.070 in. wide, brown | 1 | B, E |
| 7 | 973125 | 973125 | • ELBOW, pipe, 1/8 in. NPT, brass | 1 | |
| 8 | 1039171 | 1039171 | • CARTRIDGE, packing, protective coating, PKG | 1 | |
| 9 | 972177 | 972177 | • ELBOW, male, 37, 1/2- 20 x 1/4 in. NPT, stainless steel | 2 | |
| 10 | 123200 | 123200 | • NUT, nozzle, anti-foul,stainless steel | 1 | |
| 11 | 179421 | 179421 | • SHAFT, 11.53 (293 mm) | 1 | |
| 12 | - - - - - - | - - - - - - | • MODULE, ball and seat | 1 | A |
| 12A | - - - - - - | - - - - - - | • • O-RING, EPR, 0.258 x 0.336 x 0.039 in. | 1 | A, C, E |
| 13 | - - - - - - | - - - - - - | • SEAL, PTFE, 0.156 x 0.375 x 0.14 in. | 1 | C |
| 14 | 179438 | - - - - - - | • RETAINER, seal, A7A | 1 | |
| 15 | - - - - - - | - - - - - - | • O-RING, EPR, 0.688 x 0.813 x 0.063 in. | 1 | B, C, E |
| 16 | - - - - - - | - - - - - - | • BODY, gun | 1 | |
| 17 | - - - - - - | - - - - - - | • O-RING, EPR, 0.563 x 0.688 x 0.063 in. | 1 | B, E |
| 18 | 153031 | 153031 | • GASKET, gun, H20 | 1 | B |
| 19 | 153028 | 153028 | • CYLINDER | 1 | |
| 20 | 981140 | 981140 | • SCREW, fil, 10- 32 x 1.00 in., steel, zinc | 4 | |
| 21 | 1080835 | 1080835 | • WASHER, flat, 0.194 x 0.375 x 0.062 in. Nylon | 1 | A, E |
| 22 | 945067 | 945067 | • O-RING, EPR, 0.375 x 0.50 x 0.063 in. | 1 | E |
| 23 | - - - - - - | 247641 | • PLUG, CO-plate | 1 | |
| 24 | - - - - - - | 945020 | • O-RING, CO-plate | 1 | E |
| 25 | - - - - - - | - - - - - - | • CO-PLATE | 1 | D |
| 26 | - - - - - - | 973299 | • PLUG, transducer | 1 | |

*Continued...*

| Item | Part | Part | Description | Quantity | Note |
|---|---|---|---|---|---|
| NS | 901911 | 901911 | • WRENCH, adjustable, module | 1 | |
| NS | 152999 | 152999 | • WRENCH | 1 | |
| NS | - - - - - - | 247638 | • PULLER, CO-plate | 1 | |
| NS | 901905 | 901905 | • BRUSH | 1 | |
| NS | 247646 | 247646 | • CARD, medical alert, injection | 1 | |

NOTE: A. Included in 179447 Service Kit, Ball and Seat, A7A.

B. Included in 179445 Service Kit, Piston w/EPR Seals.

C. Included in 179446 Service Kit, Shaft Seal.

D. Optional - See Table 1.

E. Included in 1604703 Service Kit, Soft Goods, A7A

NS: Not Shown

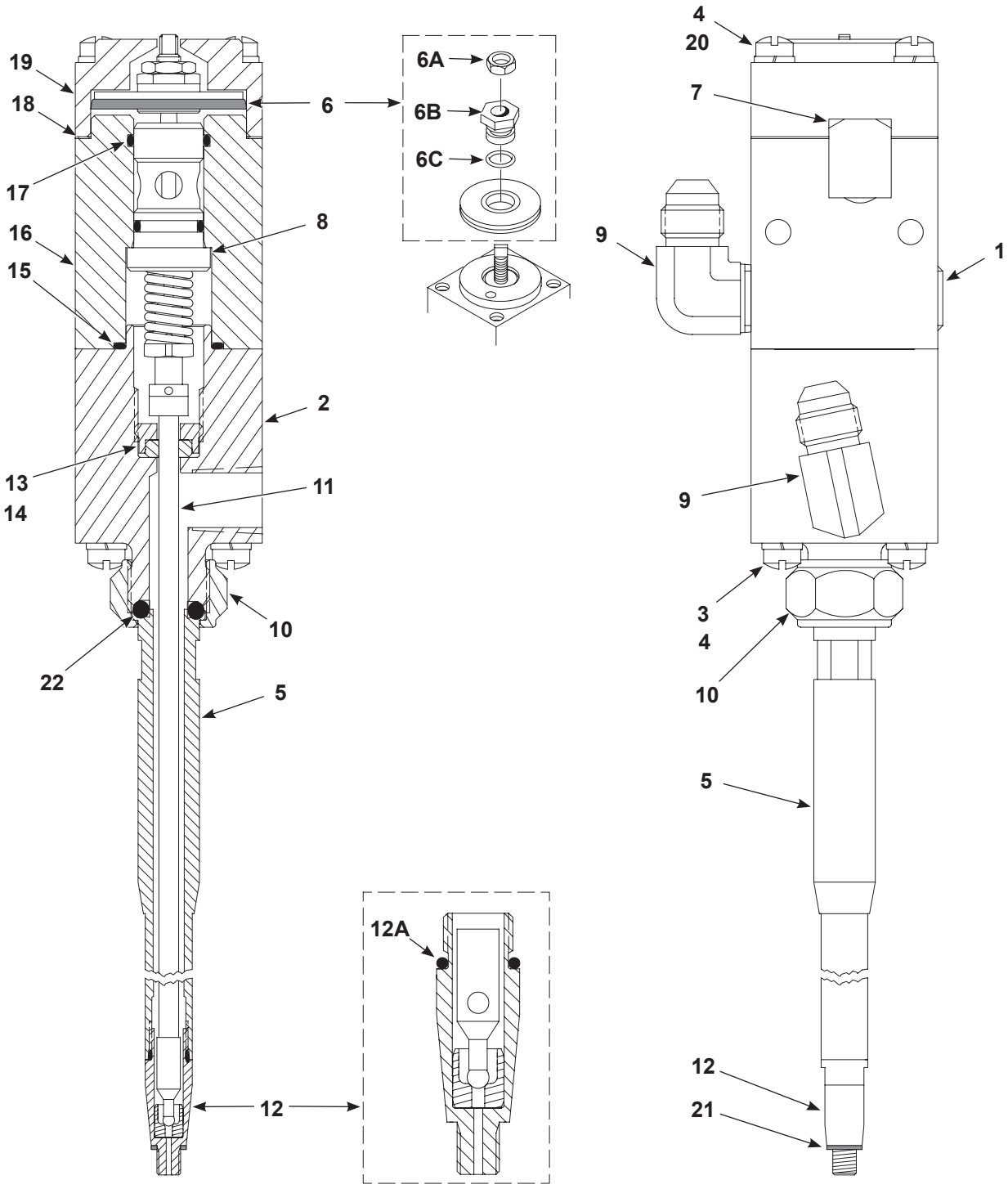



Figure 9 Parts (A7A Circulating Lancing Spray Gun)

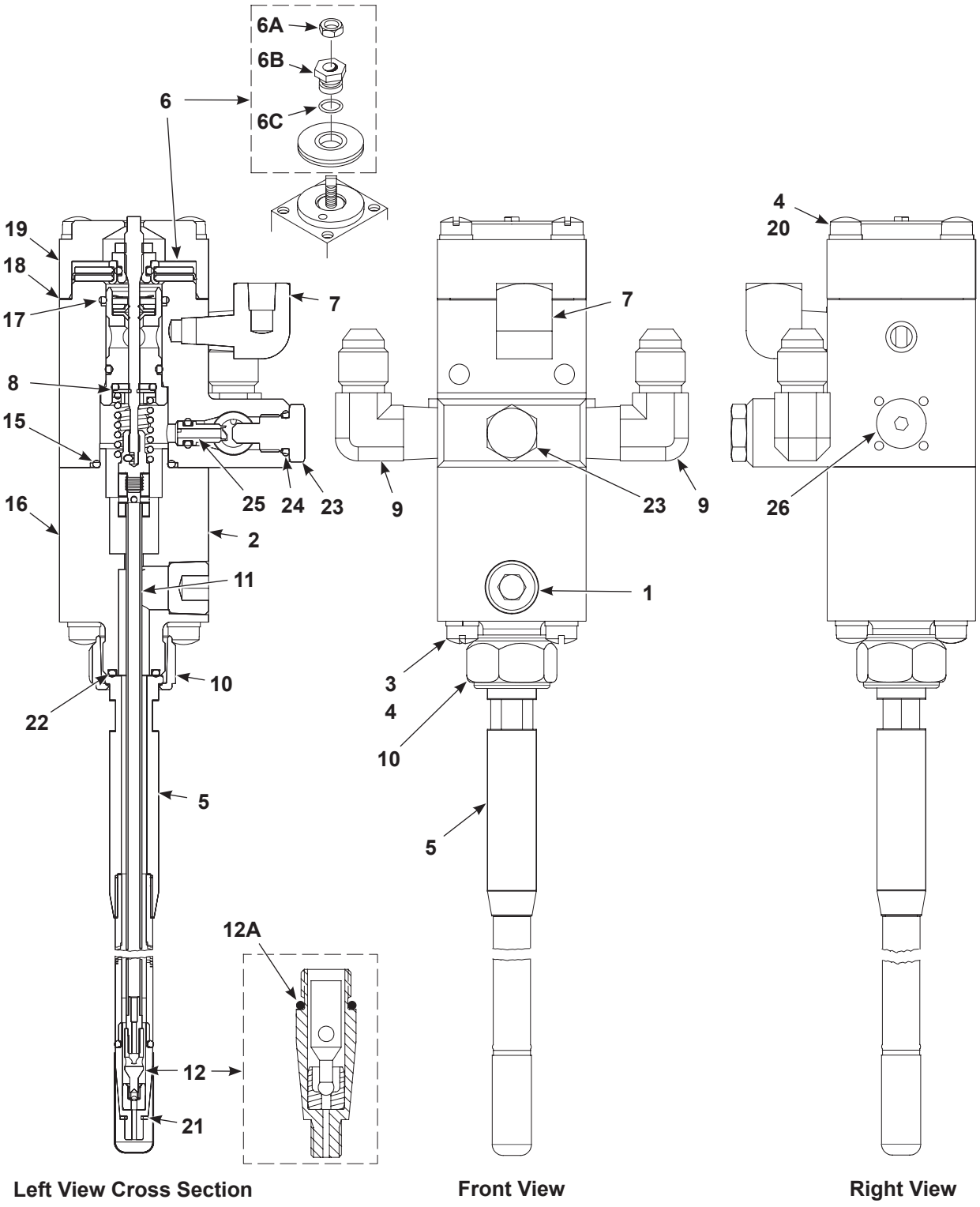



Figure 10 Parts (A7A SM Lancing Spray Gun)

## Service Kits

Use these kits to rebuild the spray gun. Refer to the spray gun parts list for kit contents.

| Part | Description | Note |
|---|---|---|
| 1039171 | CARTRIDGE, packing, protective coating, PKG | |
| 179447 | SERVICE KIT, ball and seat, A7A | |
| 179446 | SERVICE KIT, shaft seal | |
| 179445 | SERVICE KIT, piston w/EPR seals | |
| 1604703 | SERVICE KIT, soft goods, A7A | |

## Adhesives, Sealants and Lubricants

Use these when making repairs to the spray gun.

| Part | Description | Note |
|---|---|---|
| 900424 | COMPOUND, threadlock, VC-3 | |
| 900481 | ADHESIVE, pipe/thread/hydraulic sealant | |
| 1612251 | LUBRICANT, O-ring, Parker, 2 oz | |

## Options

### Air Release Valve

Use this optional air release valve for quick gun response over long distances.

| Part | Description | Note |
|---|---|---|
| 901028 | VALVE, air release, normally closed | |

### Pressure Transducer

Use this pressure transducer with the iTRAX spray monitor system. It has a 304 cm (10 ft) armored cable from the transducer to the amplifier, and a 244 cm (8 ft) cable from the amplifier to the spray monitor. Refer to the instruction sheet shipped with the transducer for specifications.

| Part | Description | Note |
|---|---|---|
| 1604485 | TRANSDUCER, 90 degree, 0-600 psi | |
| 1611151 | TRANSDUCER, 160F, 90 degree, INT AMP, 0- 1000 psi | |

## CO-Plate

Use carbide CO-plates with the iTRAX spray monitor system. Cross-reference your nozzle size with your spray pressure to find the correct CO-plate part number. Contact your Nordson representative for more information on CO-plates for your application.

Table 1 CO-Plate Selection Chart

| | Spray Pressures | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Nozzle Size (GPM)** | **27 Bar (400 psi)** | **34 Bar (500 psi)** | **41 Bar (600 psi)** | **48 Bar (700 psi)** | **55 Bar (800 psi)** | **62 Bar (900 psi)** | **69 Bar (1000 psi)** | **76 Bar (1100 psi)** |
| **0.015** | 247707 (015) | 247707 (015) | 247708 (02) | 247708 (02) | 247708 (02) | 247709 (025) | 247709 (025) | 247709 (025) |
| **0.03** | 247709 (025) | 247710 (03) | 247710 (03) | 247711 (04) | 247711 (04) | 247711 (04) | 247712 (05) | 247712 (05) |
| **0.04** | 247710 (03) | 247711 (04) | 247711 (04) | 247712 (05) | 247713 (06) | 247713 (06) | 247713 (06) | 247714 (075) |
| **0.06** | 247712 (05) | 247713 (06) | 247713 (06) | 247714 (075) | 247714 (075) | 247715 (09) | 247716 (105) | 247716 (105) |
| **0.075** | 247713 (06) | 247714 (075) | 247714 (075) | 247715 (09) | 247716 (105) | 247717 (12) | 247718 (14) | 247718 (14) |
| **0.09** | 247714 (075) | 247715 (09) | 247716 (105) | 247717 (12) | 247717 (12) | 247718 (14) | 247718 (14) | 247719 (16) |
| **0.12** | 247716 (105) | 247717 (12) | 247718 (14) | 247719 (16) | 247719 (16) | 247720 (20) | 247720 (20) | 247720 (20) |
| **0.14** | 247717 (12) | 247718 (14) | 247719 (16) | 247719 (16) | 247720 (20) | 247720 (20) | 247721 (25) | 247721 (25) |
| **0.20** | 247719 (16) | 247720 (20) | 247721 (25) | 247721 (25) | 247722 (30) | 247722 (30) | | |
| **0.30** | 247721 (25) | 247722 (30) | CO-plate part number → 247722 (30) ← CO-plate designation | | | | | |

**NOTE:** The CO-plate designation is on the front of the CO-plate.

**NOTE:** Spring range is pressure range of spring used in pressure control system regulator.

## Nozzles

This gun uses Nordson Tube Lining Cross-Cut nozzles. Refer to Section B7, Tube Lining Nozzles, in the Nordson Nozzle Catalog, or contact your Nordson representative for help in ordering new nozzles for your spray gun.

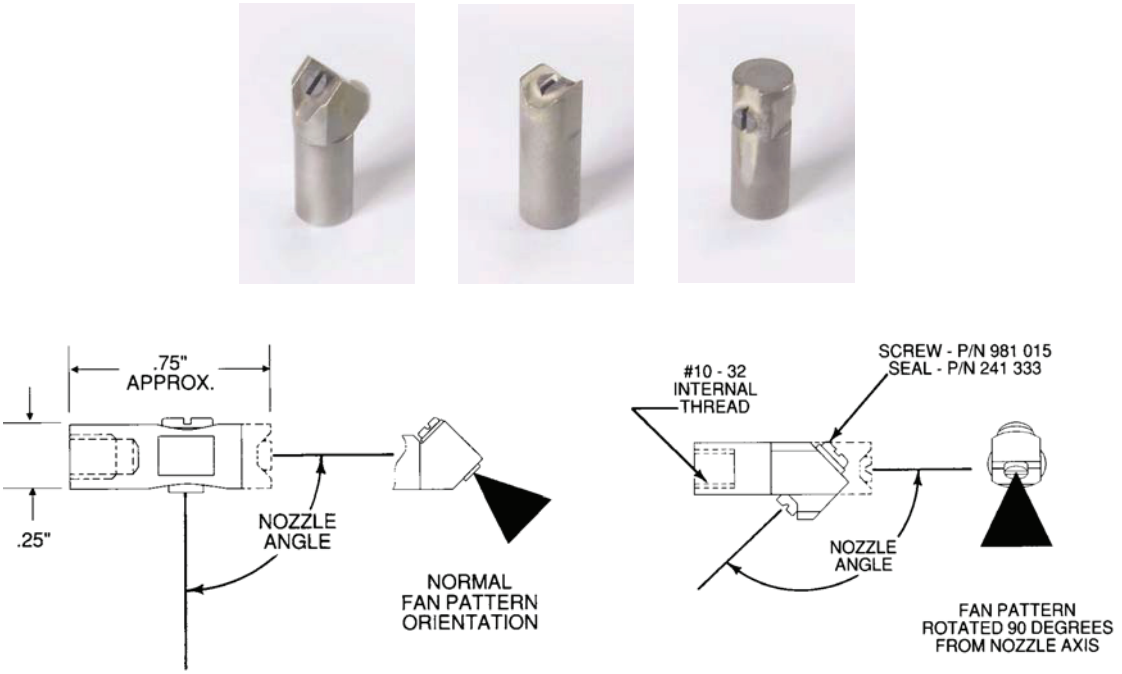



Figure 11 Tube Lining Nozzles

# EU DECLARATION of Conformity

**Product: Automatic Airless Spray Applicators, A7A**

**Models: A7A Single, A7A Dual, A7A Extended Lancing**

This Declaration is issued under the sole responsibility of the manufacture.

**Description:** These are all air operated high pressure airless spray guns. The Lancing one listed above is used for lancing into an object to be coated.

**Applicable Directives:**
2006/42/EC – Machinery Directive

**Standards Used for Compliance:**
EN/ISO12100 (2010)
EN1953 (2013)

**Principles:**
This product has been manufactured according to good engineering practice.
The product specified conforms to the directive and standards described above.

Quality Certification: DNV - ISO9001

Date: 02FEB25

Jeremy Krone
Engineering Manager
Industrial Coating Systems
Amherst, Ohio, USA

**Nordson Authorized Representative in the EU**
**Person authorized to compile the relevant technical data.**
**Contact:** Operations Manager
Industrial Coating Systems
Nordson Deutschland GmbH
Heinrich-Hertz-StraBe 42-44
D-40699 Erkrath

# UK DECLARATION of Conformity

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**Product:** **Automatic Airless Spray Applicators, A7A**

**Models: A7A Single, A7A Dual, A7A Extended Lancing**

**Description:** These are all air operated high pressure airless spray guns. The Lancing one listed above is used for lancing into an object to be coated.

**Applicable UK Regulations:**
Supply Machinery (Safety) Regulations 2008.

**Standards Used for Compliance:**
EN/ISO12100 (2010)
EN1953 (2013)

**Principles:**
This product has been manufactured according to good engineering practice.
The product specified conforms to the directive and standards described above.

Quality Certification: DNV - ISO9001

Date: 02FEB25

Jeremy Krone
Engineering Manager
Industrial Coating Systems
Amherst, Ohio, USA

**Nordson Authorized Representative in the UK**
**Contact:** Technical Support Engineer
Nordson UK Ltd.; Unit 10 Longstone Road
Heald Green; Manchester, M22 5LB.
England

# EU DECLARATION of Conformity

**Product:** **Automatic Airless Spray Applicators, A7A**

**Models: A7A Quattro Modular, A7A Dual Modular, A7A Single Modular, A7A Extended Lancing with Spray Monitor Port, Standard A7A with Spray Monitor Port**

This Declaration is issued under the sole responsibility of the manufacture.

**Description:** These are all air operated high pressure airless spray guns. The Lancing one listed above is used for lancing into an object to be coated.

**Applicable Directives:**
2006/42/EC - Machinery Directive
2014/34/EU - ATEX Directive

**Standards Used for Compliance:**
EN/ISO12100 (2010)
EN/ISO80079-36 (2016)
EN/ISO80079-37 (2016)
EN1953(2013)

**Principles:**
This product has been manufactured according to good engineering practice.
The product specified conforms to the directive and standards described above.

Flammable Atmosphere Marking: Ex h IIB T6 Gb
Tech File: Sira / CSA Group, NB 2813 (Arnhem, Netherlands)
DNV - ISO9001
ATEX Quality Notification – SGS Fimko Oy, NB 0598 (Helsinki Finland)

Date: 02FEB25

Jeremy Krone
Engineering Manager
Industrial Coating Systems
Amherst, Ohio, USA

**Nordson Authorized Representative in the EU**
**Person authorized to compile the relevant technical data.**
**Contact:** Operations Manager
Industrial Coating Systems
Nordson Deutschland GmbH
Heinrich-Hertz-StraBe 42-44
D-40699 Erkrath

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**Product:** **Automatic Airless Spray Applicators, A7A**

**Models: A7A Quattro Modular, A7A Dual Modular, A7A Single Modular, A7A Extended Lancing with Spray Monitor Port, Standard A7A with Spray Monitor Port**

**Description:** These are all air operated high pressure airless spray guns. The Lancing one listed above is used for lancing into an object to be coated.

**Applicable UK Regulations:**
Supply Machinery (Safety) Regulations 2008.
Equipment & Protective Systems Intended for use in Potentially Explosive Atmosphere Regulation 2016.

**Standards Used for Compliance:**
EN/ISO12100 (2010)
EN/ISO80079-36 (2016)
EN/ISO80079-37 (2016)
EN1953(2013)

**Principles:**
This product has been manufactured according to good engineering practice.
The product specified conforms to the directive and standards described above.

Flammable Atmosphere Marking: Ex h IIB T6 Gb
Tech File – NB 0518 Sira CSA Group, UK

Quality System:
- DNV ISO9001
- SGS Baseefa NB 1180 (Buxton, Derbyshire, UK)

Date: 02FEB25

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