MEG® Inside Stripe Applicator

Customer Product Manual
Document Number 1084632-09
– English –
Issued 09/24

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

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http://www.nordson.com.

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Change Record

Revision	Date	Change
04	07/16	Updated *Parts* section for *Special Tools.*
05	03/17	Updated labels.
06	04/18	Updated *Ball and Seat Replacement* procedure.
07	02/21	Updating torque values for module, seat retainer and nozzle nut.
08	12/21	Updated UK approvals information. Replaced MEG driver references with iTrax spray controller and NC-1 spray gun driver.
09	09/24	Updating Manufacturer Address

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.

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.
- 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:

Element	Symbol	Prefix
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

Description

The MEG Inside Stripe Applicator is a high-speed electrically actuated circulating spray applicator designed to coat the welded seam of three-piece cans at rates of up to 1000 cans per minute. The applicator is installed on the end of the parent machine weld arm, and applies the coating after the seam is welded. It can be used with cans as small as 52 mm and with waterborne and solvent-borne can lacquers.

The applicator can be retrofitted into existing inside stripe systems, as well as used in new installations. All MEG Inside Stripe Applicators requires either an iTrax® spray controller or NC-1 spray gun driver to operate properly.

Features

The applicator features include

- online-replaceable solenoid valve (MEG II module)
- online-replaceable ball and seat
- adjustable nozzle holder for online spray adjustment
- circulating manifold with 4-mm tube fittings
- solvent-resistant EPR O-rings

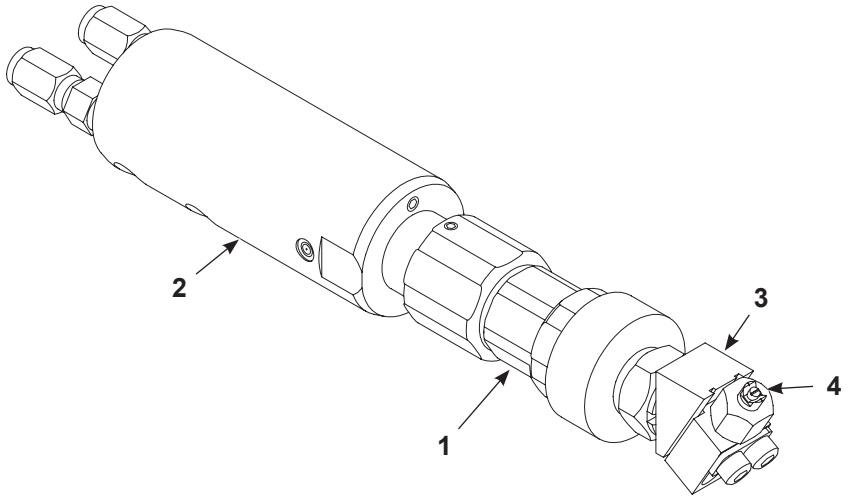

Figure 1 MEG Inside Stripe Indicator

1. MEG II manifold
2. MEG manifold
3. Adjustable nozzle holder
4. Nozzle (size as required by application)

Airless nozzles and nozzle nuts are not included with the applicator. The nozzles are available in a wide variety of pattern widths and flow rates.

Contact your Nordson representative for information on nozzles for your applications.

Specifications

Item	Specification
Dimensions	See Figure 2.
Weight	0.75 kg (1.6 lb)
Electrical Requirements	48 Vdc, 3 amps for 3 msec and 1 amp holding (use iTrax spray controller or NC-1 spray gun driver)
Fluid Pressure	34.5 bar (500 psi) maximum
Fluid Temperature	60°C (140°F) maximum
Nozzle Flow Rate	0.001-0.013 l/sec (0.015-0.2 gpm)
Coating material pH and Viscosity	6.5-8.5 pHn 15-40 sec with Zahn 2 cup at 21°C (70°F)
Minimum Can Size	52 mm diameter

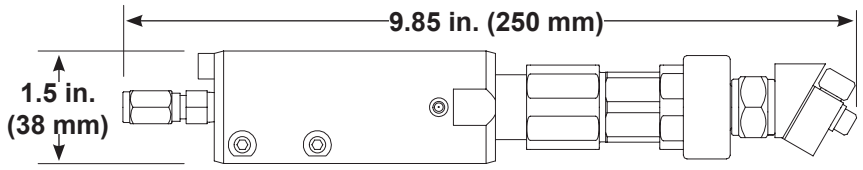

Figure 2 Applicator Dimensions (Without Nozzle or Nozzle Nut)

Ratings and Label Information

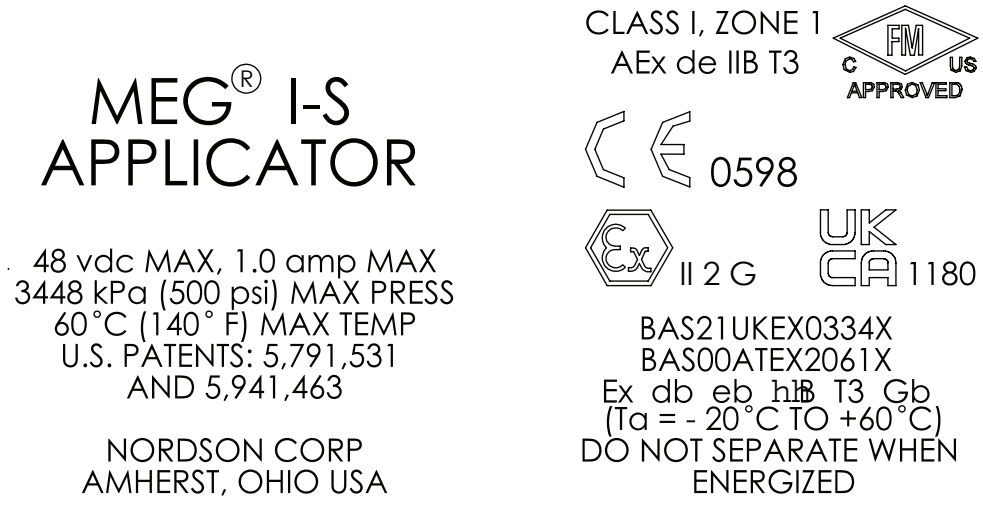

Figure 3 MEG Inside Stripe Applicator Label (1084631)

Applicator Installation

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

WARNING: The purchaser should make the manufacturer aware of any external effects or aggressive substances that the equipment may be exposed to.

NOTE: The applicator is normally installed by a Nordson representative. Contact your Nordson representative if installation help is required.

Mounting

Use a 0.312-0.375 in. (7.92-9.50 mm) round mounting bar with a flat on the applicator end. Insert the bar into the mounting hole at the rear of the MEG manifold with the flat toward the two socket-head screws in the manifold and tighten the screws.

Fluid Connections

The applicator has two 4-mm OD tube connectors. Connect the fluid pressure and return fluid tubes to the connectors.

NOTE: An approved pressure relief device set at 600 psi (42 bar) must be installed in the system fluid supply line. Fluid hoses and tubing must have a minimum burst pressure of 1000 psi (70 bar.

Wiring

See Figure 4 and Figure 5. Refer to *Parts* for the weld arm cable (4), and connector (3) part numbers. Refer to the iTrax spray controller or NC-1 spray gun driver manual for connections.

Refer to for wiring and pinout diagram.

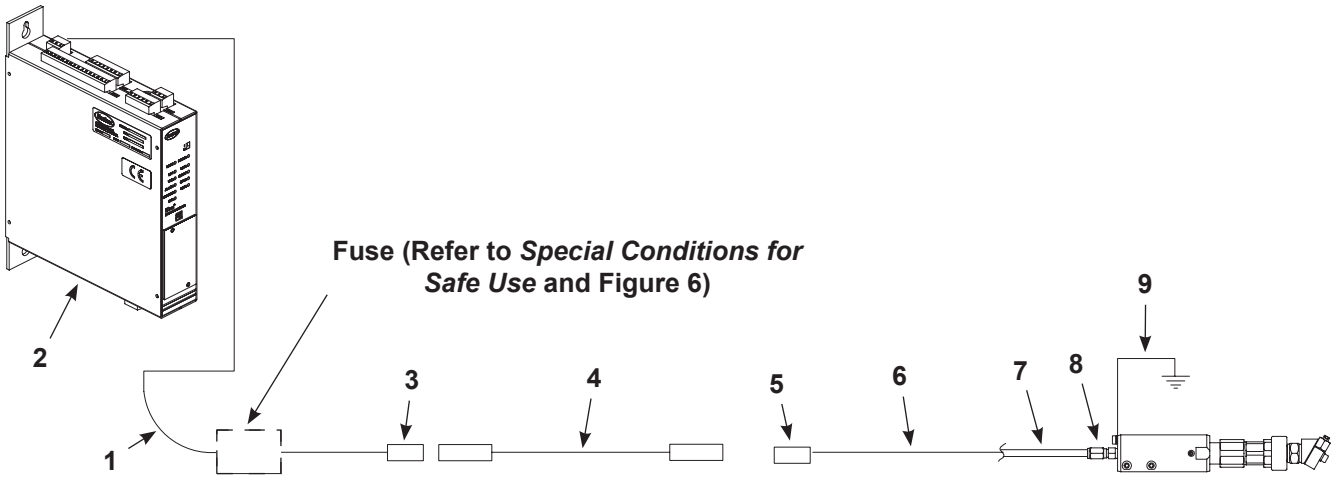

Figure 4 Cabling Diagram

1. Customer supplied cable
2. iTrax spray controller (or NC-1 driver)
3. Connector
4. Weld arm cable
5. Receptacle
6. Applicable wires
7. Tubing
8. Tubing connector
9. Ground strap

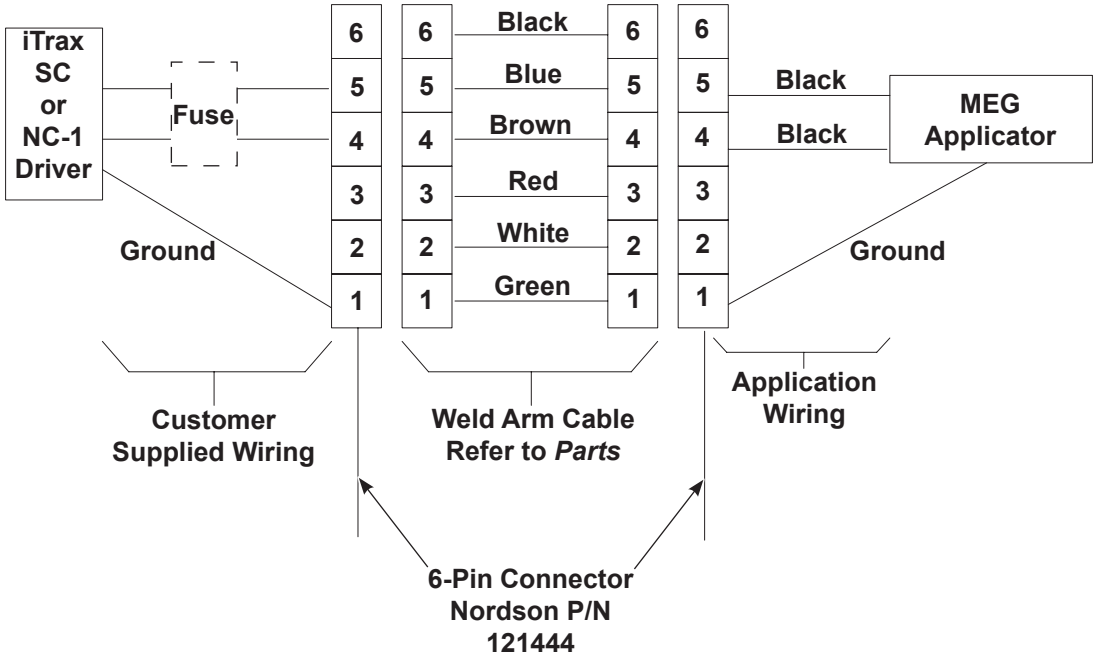

Figure 5 Wiring and Pinout Diagram

Special Conditions for Safe Use

Baseefa (2001) Ltd.

All electrical cables must be suitably protected against mechanical damage and terminated within a terminal or junction box suitable for the conditions of use.

Install fuse holder and 1 amp fuse as shown in Figure 5 and Figure 6.

WARNING: Use a driver/trigger device which meets the electrical requirements listed in this manual. Using an improper driver/trigger device may result in damage to the gun and/or driver/trigger device. Contact your Nordson representative for more information.

WARNING: If you use the MEG Inside Stripe Applicator with solvent-borne coating materials, you must install the fuse and fuse holder shipped with the applicator in the coil circuit as shown in Figure 6. Failure to observe this warning could result in personal injury or property damage.

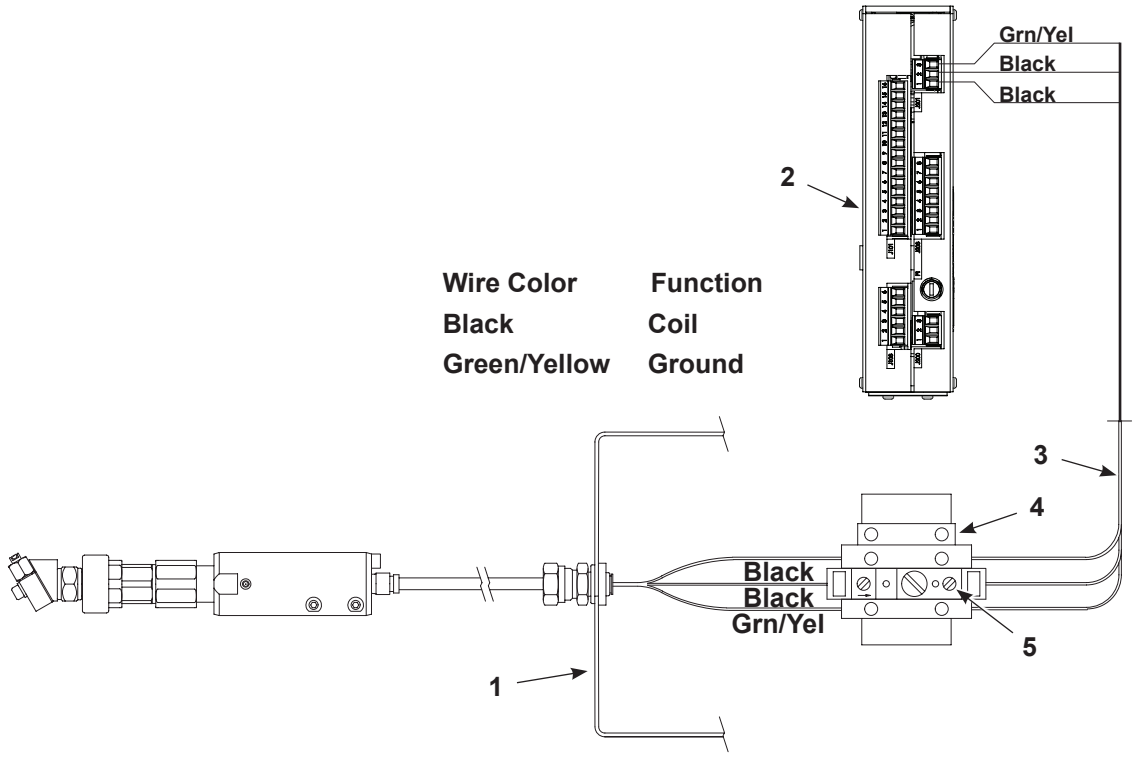

Figure 6 Fuse Installation – Special Condition for Safe Use

1. Customer supplied junction box
2. iTrax spray controller (or NC-1 spray gun driver)
3. Customer-supplied terminal block
4. Fuse holder and 1 amp fuse (shipped with MEG applicator)

Nozzle Installation and Alignment

See Figure 7.

1. Nozzles (3) are shipped with nozzle nuts (4). Make sure the nozzle (3) is fully installed in the nozzle nut (4), then thread the nozzle nut (4) onto the holder and tighten it securely with a wrench. Do not overtighten the nut.
2. Thread the nozzle holder nut (2) onto the applicator seat (1). Tighten the nozzle holder nut (2) to 10-12 ft-lb (14-16 N●m).
3. Rotate the nozzle holder to position the nozzle (3). Tighten the nozzle nut (4) securely with a wrench.
4. Loosen the two socket-head screws (5) with a 5⁄32 hex key and slide the nozzle (3) into the correct position. Tighten the socket head screws (3) evenly and securely. If the socket head screws (3) are not tightened evenly the slide will leak.

NOTE: Slide the nozzle toward the can surface to flow the coating material onto the weld seam. Slide the nozzle away from the can surface to allow the coating material to atomize before hitting the weld seam.

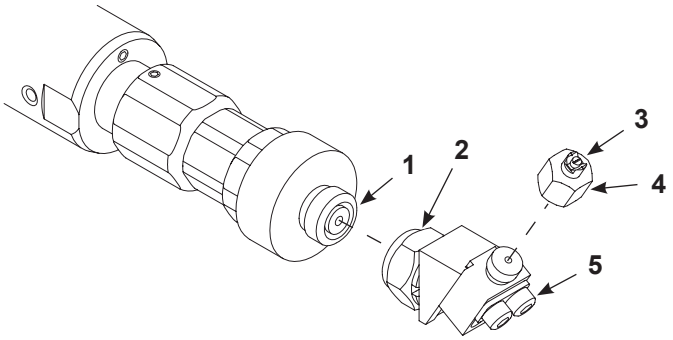

Figure 7 Nozzle Installation and Alignment

1. Applicator seat
2. Nozzle holder nut
3. Nozzle
4. Nozzle nut
5. Socket head screw

Operation

WARNING: This equipment can be dangerous unless it is used in accordance with the rules laid down in the manual.

Operation of the applicator is dependent upon the pattern controller it is used with. Refer to your pattern controller manual for operation procedures.

Troubleshooting

Problem	Possible Cause	Corrective Action
1. Applicator fails to trigger	Poor electrical connections	Check the electrical connections.
	Seat retainer nut too tight	Loosen the seat retainer nut and tighten it to 10-12 ft-lb (14-16 N●m).
	Bad solenoid coil	Disconnect the applicator wiring and check the coil resistance with an ohmmeter. Reading should be about 2 ohms. Replace the coil if the resistance check fails. Use the *Body with Coil Service Kit* listed on page 23 or the *MEG II Reduced Cavity Module Service Kit* listed on page 22 to replace the coil.
	Blown fuse	See Figure 6. Check the fuse. If the fuse is blown, a lamp on the fuse holder will flash as the gun is triggered. Remove the fuse and check it with an ohmmeter. Replace the fuse if blown.
2. Fluid spits or leaks from nozzle	Dirty or worn ball and seat	Loosen the seat retainer nut and remove the seat. Clean and inspect the seat and ball. Replace them if they are worn or damaged. Use the *Reduced Cavity Ball and Seat Service Kit* listed on page 22.
3. Fluid leaks from nozzle nut, nozzle holder assembly, or retaining nut	Loose screws, or dirt preventing metal-to-metal seal	Tighten the nozzle nut, retaining nut, or two socket-head screws on the nozzle holder. If leaking continues, remove nozzle holder, disassemble, and clean thoroughly.
4. Fluid leaks from manifold	Damaged or worn upper manifold O-rings	Replace the upper manifold O-rings. Replacement O-rings are available separately or as part of the *Soft Goods Service Kit* listed on page 23.
5. Spray weight increases	Loose or broken diaphragm spring on armature assembly	Replace either the armature spring or the entire armature assembly. Use either the *Armature Spring Kit* on page 24 or the *Reduced Cavity Ball and Seat Service Kit* listed on page 22.

Repair

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

Ball and Seat Replacement

WARNING: Relieve system fluid pressure and shut off system electrical power before performing the following procedure. Failure to do so could result in personal injury.

NOTE: The ball and seat can be replaced without removing the applicator from the spray arm.

See Figure 8.

Have the following ready:

- ball and seat service kit
- petroleum jelly (do not use O-ring lubricant)
- wrenches shipped with the applicator

The ball and seat service kit is shipped assembled. It consists of the:

- seat
- O-rings
- spacer
- armature/ball assembly

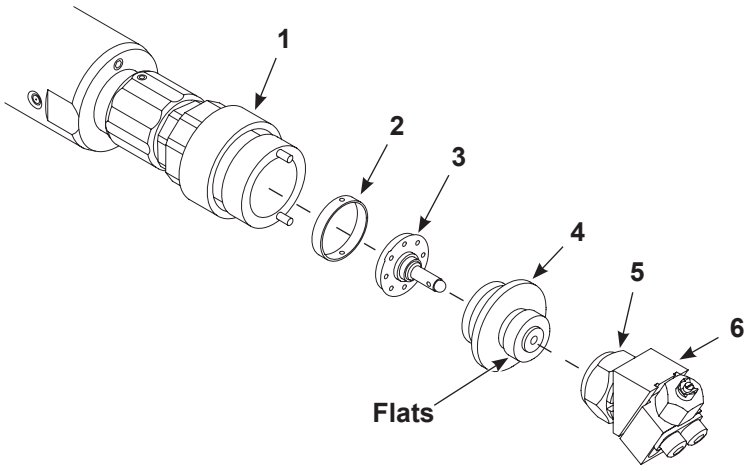

Figure 8 Ball and Seat Replacement

1. Seat retainer ring
2. Spacer
3. Armature/ball assembly
4. Seat
5. Retaining nut
6. Nozzle holder

1. Unscrew the retaining nut (5) and remove the nozzle holder (6).
2. Unscrew the seat retainer nut (1) and slide it forward till the aramture/ball assembly (3) and seat (4) assembly snaps out.
3. Remove the seat (4), armature/ball assembly (3) and spacer (2) from the module body.
4. Clean the O-ring sealing surface on the ID of the module body.
5. Lubricate the large O-ring on the armature side of the new seat with petroleum jelly. The small O-ring in the face of the seat can be discarded—it is not used with the adjustable nozzle holder.
6. Install the new spacer, armature/ball assembly, and seat (2, 3, and 4) into the end of the body.
   a. Fit the body pins into the pin sockets in the seat (4).
   b. Make sure the spring tab is engaged in slot of seat holder.
   c. Use a wrench to twist along the flats on the seat (4) and push in toward module body to install the armature/ball assembly (3) and seat (4) assembly.

   NOTE: The pin sockets in the seat (4) are arranged so the seat (4) can be rotated in 45° increments. Each time the seat (4) is installed, rotate it 45° to even out wear on the face of the body.
7. Slide the retaining nut (5) forward and thread it onto the seat (4). Tighten the retaining nut (5) to 10-12 ft-lb (14-16 N●m).
8. Install the nozzle holder (5). Position the nozzle correctly before tightening the retaining nut (5) securely with a wrench.

MEG II Module Replacement

WARNING: Relieve system fluid pressure and shut off system electrical power before performing the following procedure. Failure to do so could result in personal injury.

NOTE: The MEG II module can be replaced without removing the applicator from the spray arm.

See Figure 9.

Have the following ready:

- ball and seat service kit
- petroleum jelly (do not use O-ring lubricant)
- wrenches shipped with the applicator

The module service kit is shipped assembled. It consists of the:

- MEG II Module
- O-rings
- seat
- spacer
- armature/ball assembly
- seat retainer nut

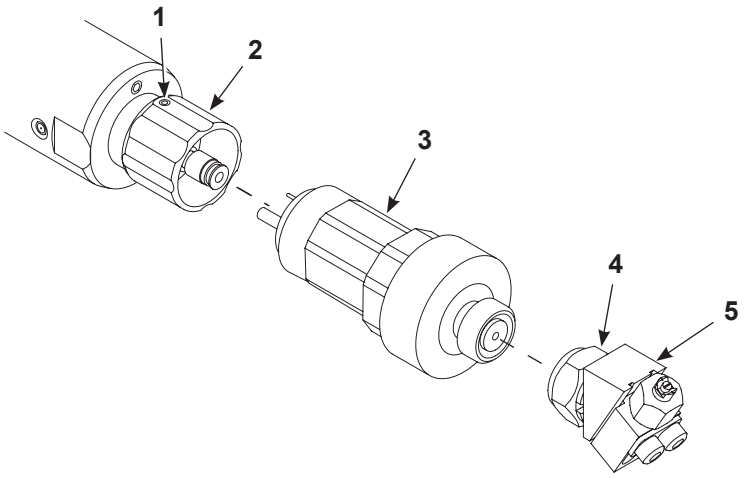

Figure 9 MEG II Module Replacement

1. Set screw
2. Module nut
3. MEG II module
4. Retaining nut
5. Nozzle holder

1. Unscrew the retaining nut (4) and remove the nozzle holder (5).
2. Loosen the set screw (1).
3. Unscrew the module nut (2) and carefully remove the old MEG II module (3) from the upper manifold.
4. Lubricate the large O-ring on the manifold side of the new MEG II module (3) with petroleum jelly. The small O-ring on the nozzle side of the seat can be discarded – it is not used with the adjustable nozzle holder.

CAUTION: Make sure you align the MEG II module (3) pins with the pin sockets in the upper manifold. If you damage the pins you will have to replace the module.

5. Carefully install the new MEG II module (3) in the manifold, fitting the pins into the pin sockets. Tighten the module nut (2) to 20-25 ft-lb (27-34 N●m).
6. Tighten the set screw (1) on the module nut (2).
7. Install the nozzle holder (5). Position the nozzle correctly before tightening the retaining nut (4) securely with a wrench. Tighten the nozzle holder to 10-12 ft-lb (14-16 N●m).

Upper Manifold O-Ring Replacement

WARNING: Relieve system fluid pressure and shut off system electrical power before performing the following procedure. Failure to do so could result in personal injury.

See Figure 10.

The front O-rings (5 and 6) can easily be replaced by removing the MEG II module (8).

Although the rear O-rings (7) should rarely have to be replaced, doing so requires disconnecting and unsoldering the cable leads from the receptacle so that you can remove the upper manifold (4) from the MEG manifold (1).

Have the following ready:

- replacement O-rings
- petroleum jelly (do not use O-ring lube)
- rubber lubricant

NOTE: The soft goods service kit listed in *Parts* includes all O-rings used in the applicator, or they can be ordered separately.

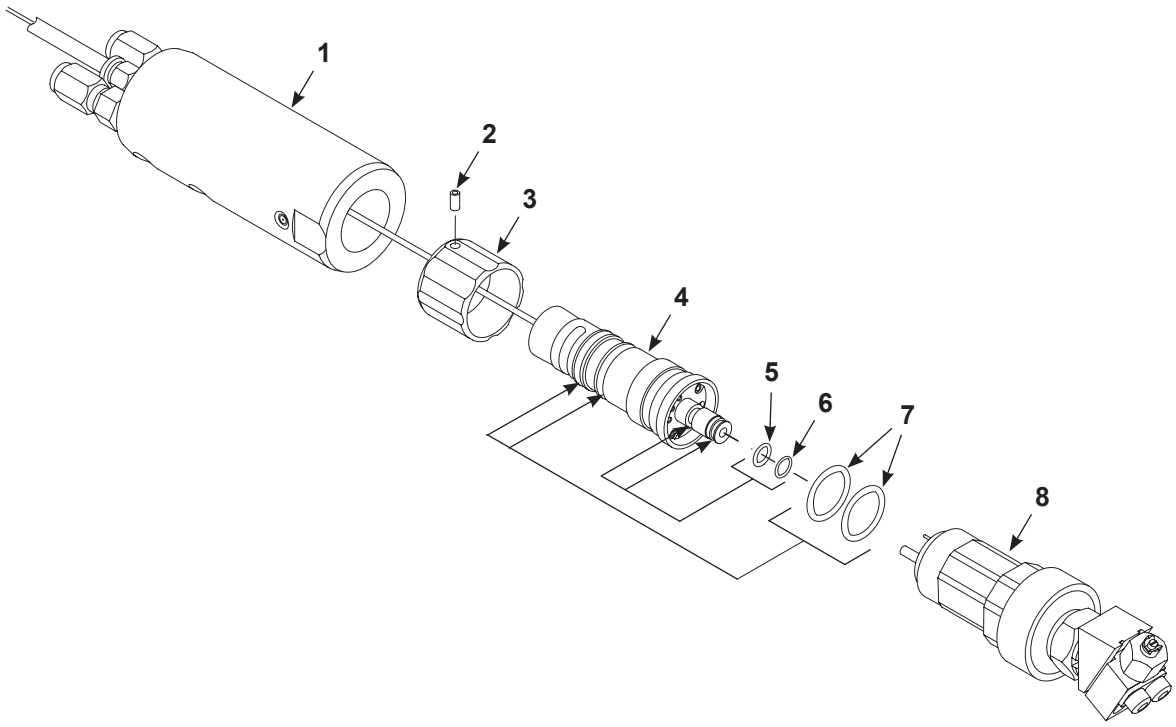

Figure 10 Upper Manifold O-Ring Replacement

1. MEG manifold
2. Set screw
3. Module nut
4. Upper manifold
5. O-ring
6. O-ring
7. Large O-ring
8. MEG module

Removal

1. Relieve system fluid pressure and shut off electrical power.
2. Unplug the applicator cable receptacle from the spray arm cable.
3. Disassemble the receptacle and de-solder the cable leads from the receptacle. Tie a string to the end of the leads so you can pull them back out of the tubing when you are done.
4. Loosen the set screw (2) and the module nut (1). Carefully pull the MEG module (8) out of the upper manifold.
5. Unscrew the upper manifold (4) from the MEG manifold (1). Pull the upper manifold (4) far enough out to remove the large O-rings (7).
6. Remove and discard the O-rings (5, 6, 7).

Installation

1. Lubricate the small O-rings (5, 6) with petroleum jelly and Install them onto the upper manifold stem. Lubricate the new large O-rings (7) with rubber lubricant, then carefully work them over the front of the upper manifold and install them in the grooves.
2. Slide the module nut (3) forward on the upper manifold (4).
3. Screw the upper manifold into the MEG manifold (1).
4. Carefully plug the MEG module (8) into the upper manifold (4), fitting the pins into the pin sockets.
5. Thread the module nut (3) onto the MEG module (8). Tighten the module nut (3) to 20-25 ft-lb (27-34 N●m).
6. Tighten the set screw (2).
7. Pull the cable leads out of the tubing and solder them back to the receptacle pins. Re-assemble the receptacle, capturing the end of the tubing in the shell nut.

   NOTE: Connect the two gun coil wires (black wires) to the connector pins. The third wire is ground.

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Parts

To order parts, call the Nordson Industrial Coating Systems Customer Support Center at (800) 433-9319 or contact your local Nordson representative.

Using the Illustrated Parts List

Numbers in the Item column correspond to numbers that identify parts in illustrations following each parts list. The code NS (not shown) indicates that a listed part is not illustrated. A dash (—) is used when the part number applies to all parts in the illustration.

The number in the Part column is the Nordson Corporation part number. A series of dashes in this column (- - - - - -) means the part cannot be ordered separately.

The Description column gives the part name, as well as its dimensions and other characteristics when appropriate. Indentions show the relationships between assemblies, subassemblies, and parts.

- If you order the assembly, items 1 and 2 will be included.
- If you order item 1, item 2 will be included.
- If you order item 2, you will receive item 2 only.

The number in the Quantity column is the quantity required per unit, assembly, or subassembly. The code AR (As Required) is used if the part number is a bulk item ordered in quantities or if the quantity per assembly depends on the product version or model.

Letters in the Note column refer to notes at the end of each parts list. Notes contain important information about usage and ordering. Special attention should be given to notes.

Item	Part	Part	Part	Description	Quantity	Note
—	- - - - - -	—	—		—	
1	- - - - - -					
2						

Continued...

NOTE: A.

B.

NS: Not Shown

AR: As Required

Applicator Parts

See Figure 11 and refer to the following parts list.

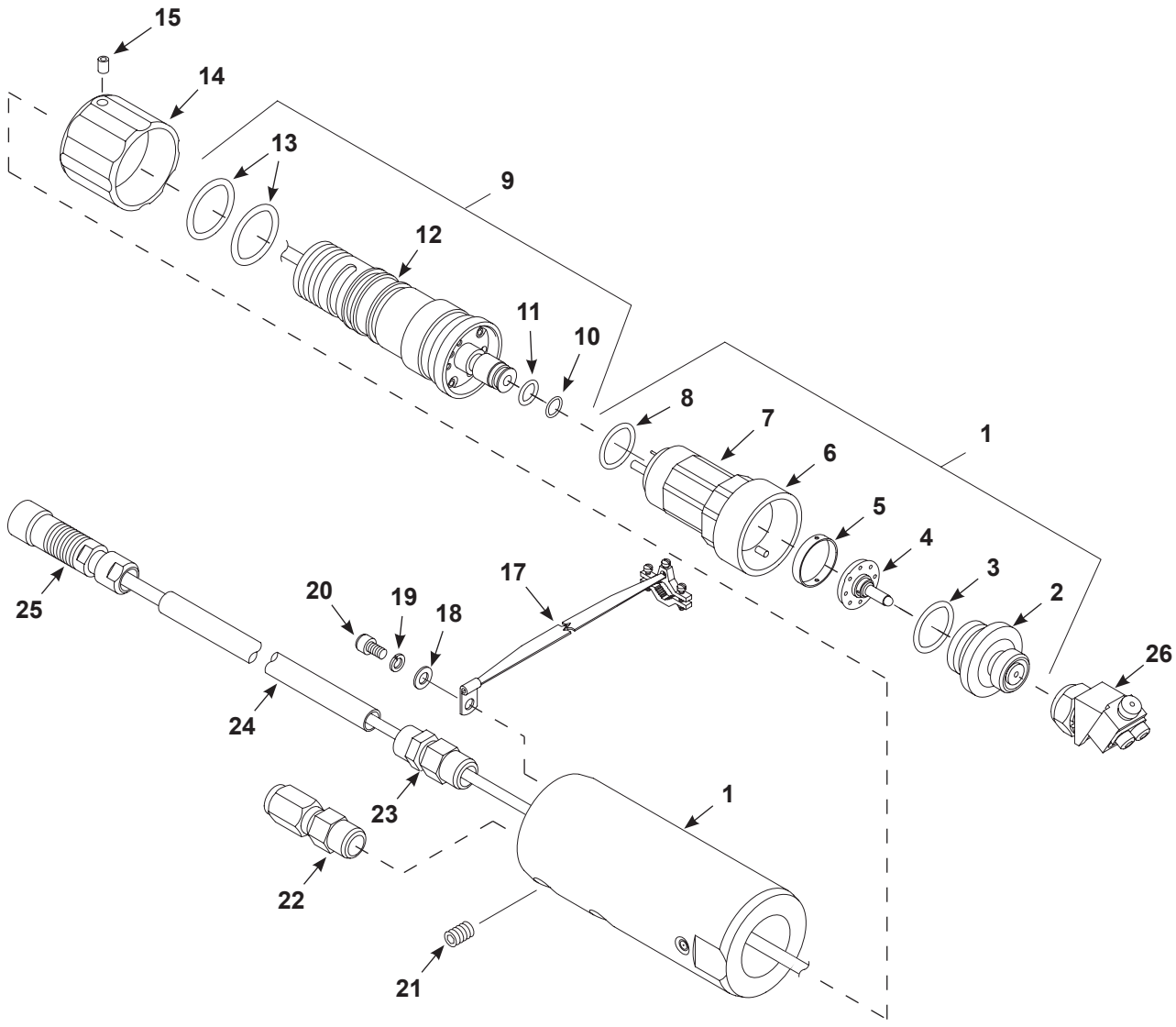

Figure 11 Applicator Parts

Item	Part	Description	Quantity	Note
—	1084631	APPLICATOR assembly, MEG I-S	1	
1	- - - - - -	• MODULE, reduced cavity, MEG II	1	A
2	- - - - - -	• • SEAT, MEG	1	A, B
3	339047	• • O-RING, EPR, 0.375 x 0.875 x 0.063 in.	1	A, B, C, D
4	- - - - - -	• • ARMATURE assembly, MEG II	1	A, B
5	237399	• • SPACER	1	A, B
6	1014709	• • NUT, seat retainer	1	A
7	- - - - - -	• • BODY, MEG II	1	A, C
8	940176	• • O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	A, C, D
9	343995	• MANIFOLD, upper, MEG II	1	
10	940077	• • O-RING, EPR, 0.156 x 0.281 x 0.063 in.	1	D
11	340263	• • O-RING, EPR, 0.188 x 0.312 x 0.063 in.	1	D
12	- - - - - -	• • MANIFOLD, upper, potted	1	
13	941163	• • O-RING, EPR, 0.625 x 0.750 x 0.063 in.	2	D
14	343999	• NUT, gun module, MEG II	1	
15	982290	• SCREW, set, cup, M4 x 4, stainless steel	1	
16	1041278	• MANIFOLD, MEG I-S	1	
17	983047	• WASHER, flat, M4, stainless steel	1	
18	343991	• CLAMP, ground, with wire	1	
19	983403	• WASHER, lock, M, split, M4, steel, zinc	1	
20	340264	• SCREW, socket, M4 x 5, steel, zinc	1	
21	981212	• SCREW, socket, set, ¼−20, 0.375 in., cup	2	
22	1041279	• CONNECTOR, male, hydraulic, 4 mm tube x ⅛ in. NPT	2	
23	971154	• CONNECTOR, male, ¼ in. tube x ⅛ in. NPT, brass	1	
24	900730	• TUBING, polyurethane, ¼ in., blue	AR	
25	121444	• CONNECTOR, receptacle	1	
26	248504	• HOLDER, nozzle, adjustable	1	
NS	247646	• CARD, medical alert, injection	1	A
NS	1008326	• FUSE HOLDER, 5 x 20, screw cap, DIN 35	1	
NS	239213	• FUSE, 1A, slo-blo, 250 V, 5 x 20 mm	2	

NOTE: A. Noted parts are included in part 1062094 Service Kit, Reduced Cavity, Module, MEG II.

B. Noted parts are included in part 1062095 Service Kit, Reduced Cavity Ball and Seat, MEG II.

C. Noted parts are included in part 343993 Service Kit, Body with Coil, MEG II.

D. Noted parts are included in part 343989 Service Kit, Soft Goods, EPR, MEG.

NS: Not Shown

AR: As Required

Special Tools

Not Included with Applicator

Part	Description	Note
1046818	TOOL, armature assembly, spring replacement	A
152999	WRENCH	
901911	WRENCH, adjusting, module	
901905	BRUSH	
NOTE: A. This tool is used with the armature spring kit.		

Service Kits

The following service kits are available for the MEG Inside Stripe Applicator. Keep these kits on hand to reduce downtime.

MEG II Reduced Cavity Module Service Kit

See Figure 11.

Item	Part	Description	Quantity	Note
—	1062094	SERVICE KIT, reduced cavity module, MEG II	1	
1	- - - - - -	• MODULE, reduced cavity, MEG II	1	
NS	237401	• • NUT, nozzle	1	A
NS	945067	• • O-RING, EPR, 0.375 x 0.500 x 0.063 in.	1	A
2	- - - - - -	• • SEAT, MEG	1	
3	339047	• • O-RING, EPR, 0.375 x 0.875 x 0.063 in.	1	
4	- - - - - -	• • ARMATURE ASSEMBLY, MEG II	1	
5	237399	• • SPACER	1	
6	1014709	• • NUT, seat retainer	1	
7	- - - - - -	• • BODY, MEG II	1	
8	940176	• • O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	
NS	247646	• CARD, medical alert, injection	1	
NOTE: A. Not used on MEG Inside Stripe Applicator. NS: Not Shown				

Reduced Cavity Ball and Seat Service Kit

See Figure 11.

Item	Part	Description	Quantity	Note
—	1062095	SERVICE KIT, reduced cavity, ball and seat, MEG II	1	
NS	945067	• O-RING, EPR, 0.375 x 0.50 x 0.063 in.	1	A
2	- - - - - -	• SEAT, MEG	1	
3	339047	• O-RING, EPR, 0.375 x 0.875 x 0.063 in.	1	
4	- - - - - -	• ARMATURE ASSEMBLY, MEG II	1	
5	237399	• SPACER	1	
NOTE: A. Not used on MEG Inside Stripe Applicator. NS: Not Shown				

Body with Coil Service Kit

See Figure 11.

Item	Part	Description	Quantity	Note
—	343993	SERVICE KIT, body with coil, MEG II	1	
NS	945067	• O-RING, EPR, 0.375 x 0.500 x 0.063 in.	1	A
3	339047	• O-RING, EPR, 0.375 x 0.875 x 0.063 in.	1	
7	- - - - - -	• BODY, MEG II	1	
8	940176	• O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	

NOTE: A. Not used on MEG Inside Stripe Applicator.

NS: Not Shown

Soft Goods Service Kit

See Figure 11.

Item	Part	Description	Quantity	Note
—	343989	SERVICE KIT, soft goods, EPR, MEG	1	
NS	945067	• O-RING, EPR, 0.375 x 0.500 x 0.063 in.	1	A
3	339047	• O-RING, EPR, 0.375 x 0.875 x 0.063 in.	1	
8	940176	• O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	
10	940077	• O-RING, EPR, 0.156 x 0.281 x 0.063 in.	1	
11	340263	• O-RING, EPR, 0.188 x 0.312 x 0.063 in.	1	
13	941163	• O-RING, EPR, 0.625 x 0.750 x 0.063 in.	2	
NS	945087	• O-RING, EPR, 3⁄16-in. tube	3	A
NS	945064	• O-RING, EPR, 5⁄16-in. tube	2	A

NOTE: A. Not used on MEG Inside Stripe Applicator.

NS: Not Shown

Armature Spring Kit

See Figure 12.

Item	Part	Description	Quantity	Note
—	1606337	KIT, spring, MEG II	1	
1	340263	• O-RING, EPR, 0.188 x 0.312 x 0.063 in.	1	
2	940077	• O-RING, EPR, 0.156 x 0.281 x 0.063 in.	1	
3	940176	• O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	
4	339047	• O-RING, EPR, 0.75 x 0.875 x 0.063 in.	1	
NS	945067	• O-RING, EPR, 0.375 x 0.50 x 0.063 in.	1	A
6	- - - - - -	• SPRING, flat, 0.0058	1	
7	- - - - - -	• WASHER, Delrin, 0.254 x 0.344 x 0.028 in.	1	
8	- - - - - -	• BUSHING, armature, ¼-28 thread	1	
9	- - - - - -	• SPACER	1	
NS	900200	• ADHESIVE, threadlocking	1	
NS	1046818	• TOOL, armature assembly	1	B

NOTE: A. Not used on MEG Inside Stripe Applicator.

B. The armature assembly tool must be ordered separately.

NS: Not Shown

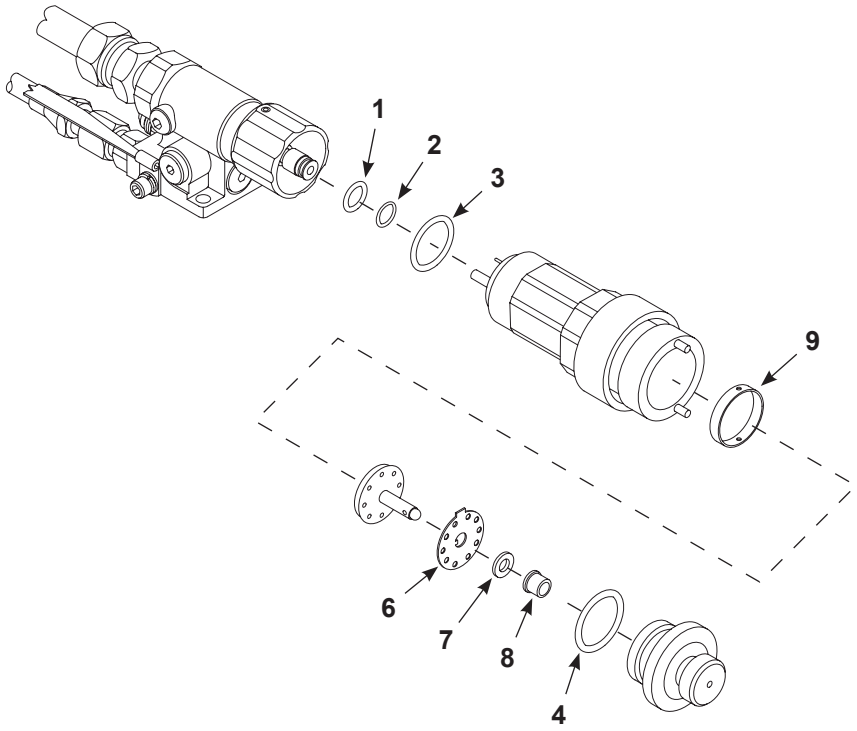

Figure 12 Armature Spring Kit

Airless Nozzle (Optional)

- Nozzles include nozzle nuts.
- Flow rate is measured using water at 500 psi (34.5 bar).
- Fan pattern width is measured with nozzle 1 in. (25 mm) from substrate.

Part	Flow Rate gal/min (l/min)	Pattern Width in. (mm)
221140	0.035 (0.132)	3.5 (88.9)
221141	0.025 (0.094)	3 (76.2)
221142	0.020 (0.076)	2.5 (63.5)
221143	0.015 (0.057)	2.5 (63.5)
221144	0.010 (0.038)	2 (50.8)
221145	0.015 (0.057)	0.8 (20.3)

Cables and Connectors (Optional)

See Figure 13 for usage diagram.

Weld Arm Cables

Rigid cables, with 6-pin connectors at both ends.

Part	Description	Note
248851	Non-insulated cable, 1625 mm long	A
104921	Insulated cable, 1625 mm long	B

NOTE: A. Use with grounded weld arm.

B. Use with isolated weld arm.

Connectors

Part	Description
121444	6-pin female connector

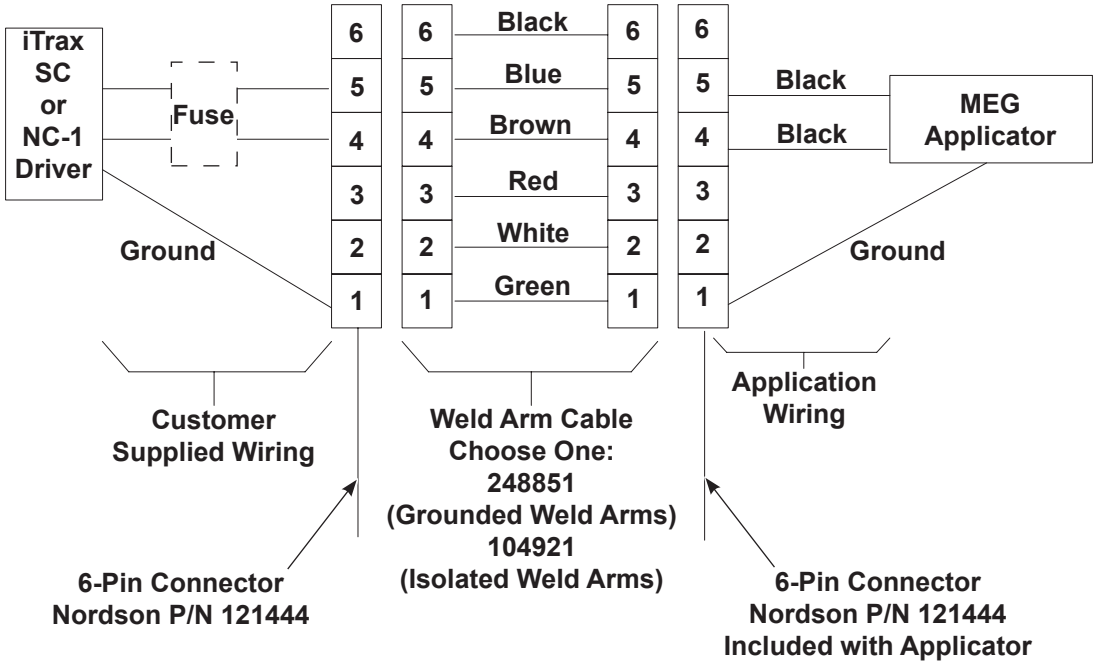

Figure 13 Optional Cables and Connectors

EU DECLARATION of CONFORMITY

Product: Meg Applicator

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

Models: Reduced Cavity Meg II, Reduced Cavity Meg II FFKM, Inside Stripe Meg II, Extended Meg II, MegII Straight Flow

Description: Compact airless automatic spray applicators for use with flammable or non-flammablematerials.

Applicable Directives:
2014/34/EU (ATEX equipment for use in potentially explosive atmospheres)
2006/42/EC (Machinery Directive)

Standards Used for Compliance:
EN60204: 2018
EN/ISO 12100: 2010
EN IEC 60079-0: 2018
EN 60079-1: 2014
EN IEC 60079-7: 2015/A1:2018

Principles:
This product has been designed and manufactured to the directive and standards / norms described above.

Certificates:
Product Certificate:
- SGS Fimko Oy, NB 0598 (Helsinki Finland) – BAS00ATEX2061X

Quality System Certificate
- SGS Fimko Oy, NB 0598 (Helsinki Finland)

Markings – Ex db eb IIB T3 Gb (Ta -20°C to + 60°C)
DNV ISO9001

Date: 08Aug24

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

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

UK DECLARATION of CONFORMITY

Product: Meg Applicator

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

Models: Reduced Cavity Meg II, Reduced Cavity Meg II FFKM, Inside Stripe Meg II, Extended Meg II, MegII Straight Flow

Description: Compact airless automatic spray applicators for use with flammable or non-flammablematerials.

Applicable UK Regulations:

Supply Machinery Safety 2008
Equipment & Protective Systems Intended for use in Potentially Explosive Atmosphere Regulation 2016, UKSI 2016:1107 (as amended)

Standards Used for Compliance:

EN60204: 2018
EN/ISO 12100: 2010
EN IEC 60079-0: 2018
EN 60079-1: 2014
EN IEC 60079-7: 2015/A1:2018

Principles:

This product has been designed and manufactured to the directive and standards / norms described above.

Certificates:

- Baseefa (Buxton, Derbyshire, UK) – BAS21UKEX0334X

EX Quality System Certificate

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

Markings – Ex db eb IIB T3 Gb (Ta -20°C to + 60°C)

Date: 08Aug24

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