MEG II Airless Spray Guns (Reduced Cavity and Extended Tip)

Customer F, odu t Manual Par 3. 1/ 69-1/5

For par and technical support, call the Fini hing Customer Support Center at (800) 433-9319.

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Contact Us

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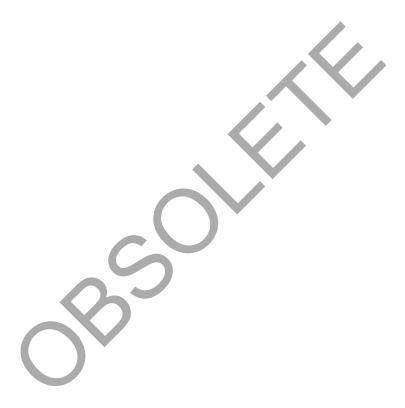
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Change Record

Revision	Date	Change
09	07/16	Updated Parts section for Special Tools.
10	04/17	Updated description for 940077 in <i>Soft Goods Service Kit</i> in <i>Parts</i> section.
11	04/18	Update Ball and Seat Replacement procedure.
12	12/19	Added multipurpose nozzle wrench.
13	12/19	Added reusable CleanSleeve cover.
14	12/19	Update to multipurpose nozzle wrench.
15	03/21	Obsolete Replaced by 1602990



MEG® II Airless Spray Guns

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 naking sure that Nordson equipment is installed, operated, and ser ced by qualified personnel. Qualified personnel are those employies 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 Nords equipment in ways other than those described in the docume....ation supplied with the equipment may result in injury to persons an age to reperty.

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 electrica, shock, shut down all electrical or electrostatic equipment im rediately. Lip not restart the equipment until the problem has been id antifice, and corrected.
- Obtain and read Safety Da She is (SDS) for all materials used.
 Follow the manufacturer's institutions for safe handling and use of materials, and use is some aded personal protection devices.
- Make sure ne spra are is adequately ventilated.
- To prevent highly, be aware of less-obvious dangers in the workplace that high can be completely eliminated, such as hot surfaces, sharp edeas, conjuged electrical circuits, and moving parts that cannot be enclosed or therwise guarded for practical reasons.

h. h-F/essure Fluids

F gh-pressure fluids, unless they are safely contained, are extremely h zardous. 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 recorstructive hand surgeon may be advisable.

The seriousness of the wound depends on where the injury is on the body, whether the substance hit something an its way an and deflected causing more damage, and many other ariables including skin microflora residing in the paint or gun which are instead into the wound. If the injected paint contains acrylic latex and tichnium dioxide that damage the tissue's resistance to infection, bacteria grow's will flourish. The treatment that doctors recommend for an injectal minjury to the hand includes immediate decompression of the caused various compartments of the hand to release the underlying tissue listed day by the injected paint, judicious wound debridement, and immediate antibiotic treatment.

Fire Safety

o avoid a ... or explosion, follow these instructions.

• Grov d all conductive equipment. Use only grounded air and fluid notes. 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.

Fire Safety (contd)

- 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 solver's in a pressurized system that contains aluminum components. Under ressure, these solvents can react with aluminum and explode, causing in ury, drath, or property damage. Halogenated hydrocarbon solvents centain on a or more of the following elements:

<u>Element</u>	<u>Symbol</u>	<u> Pre</u> fi <u>x</u>
Fluorine	F	"Fl ⁻ Jro-"
Chlorine	CI	"C. lorr
Bromine	Br	"Brorno-"
lodine		lodo-"

Check our material SDS or contact your material supplier for more information or your wast use halogenated hydrocarbon solvents, contact your Nordson representative for information about compatible Nordson companies.

Action in the Event of a Malfunction

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

See Figure 1. This manual covers the MEG II spray guns, including the reduced cavity and the extended tip versions. The standard version was obsoleted in 2007. These guns are high-speed airless spray guns used to apply water- and solvent-based coatings to the interior surfaces of metal cans.

NOTE: The MEG II gun is approved for solvent-based materials when using approved drivers. To meet approvals, the fuse and fuse holder supplied with the MEG II gun must be installed.

The MEG II gun can be used with the iTrax spray system, which offers advanced spray system control and monitoring.

The MEG II gun features:

- special internal coil and armature assembly for cooler gun operation
- online-replaceable gun module (1), cc. sisting of ball, seat, and coil
- online-replaceable ball and seat
- $^{1}/_{2}$ -20 37° JIC fittings (3) for fluid in . ad out connections
- ¹/₄-in. liquid-tight electrics, conduit (4), 142 cm (56 in.) long

Two or three MEG II guns can 'e positioned in a spray pocket for zone-spray applications. The M. C if gun can be installed on existing spray machine mounting plater that use these Nordson guns:

- A₂₀A
- A₁₀A
- A1/A

Refer to Specific ations on page 29 for technical data and label information.

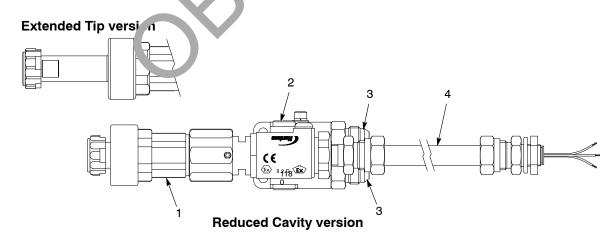


Figure 1 MEG II Gun Components (Top View)

1. Gun module

- 3. $\frac{1}{2}$ -20 37° JIC fittings
- 4. Electrical conduit

2. Manifold

Installation



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

Mounting

See Figure 2.

Mount the MEG II gun on the mounting plate, using the two holes in the manifold base.

- If you are replacing an A10A, A14A, or A20A spray gun, remove it and
 use the two socket-head screws (1) shipp d with the MEG II gun to
 secure it to the existing mounting plate
- If your system does not use any of thes pray coins, refer to Specifications on page 29 for monthing diversions.

Fluid Connections

NOTE: An approved pressure alief, evice set at 90 bar (1300 psi) must be installed in the system fluid supply one. The fluid hoses must have a minimum burst pressure of 207 car (3000 psi).

See Figure 2. Connect he muid inlet and outlet hoses to the fluid fittings (7). Either fitting may be use J for the inlet. The fittings are $^{1}/_{2}$ -20 37° JIC.

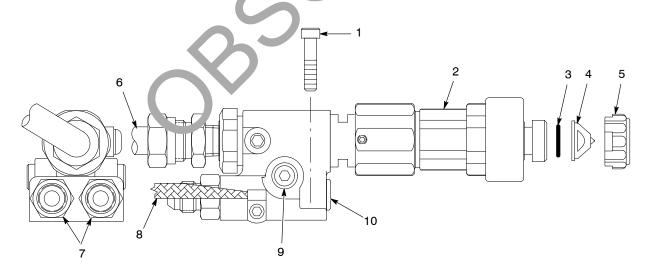


Figure 2 Installation

- 1. Socket-head screws
- 2. Gun
- 3. Seat O-ring
- 4. Nozzle

- 5. Nozzle nut
- 6. Electrical conduit
- 7. Fluid fittings

- 8. Ground cable and clamp
- Pressure transducer plugs and O-rings
- 10. CO plate plug and O-ring

Part 334669-15

Electrical Connections



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.

Special Conditions for Safe Use

SGS Baseefa

The electrical conduit wire leads must be suitably protected against mechanical damage and terminated within a terminal or junction box suitable for the conditions of use. The fuse block and 1 amp fuse must be used as shown below.

Connections

See Figure 3.

- 1. Connect the gun's electric conduit to customer-supplied junction box (5) with the lock nut o) ar a seal ring (7).
- 2. Connect the gun wires from the electrical conduit to a customer-supplied terminal block (3) s shown.



WARNING: If sing the Mile II gun with solvent-based coating materials, you must instal the fuse and fuse holder to the gun coil circuit. Failure to observe the washing or all result in personal injury or property damage.

- 3. If using the NEG II gun with solvent-based coating materials, install the tuse holder and 1 amp fuse shipped with the spray gun on the terminal block and connect one of the black coil wires to the fuse holder.
- 4. For ject customer-supplied wiring (2) from the terminal block and fuse holder, if used, to the MEG driver or other driver/trigger device (1).



WARNING: The MEG II gun must be connected to a true earth ground. Use the supplied ground cable and clamp and test the connection for continuity before putting the gun into service.

5. Connect the ground clamp on the end of the braided ground cable (9) to a true earth ground.

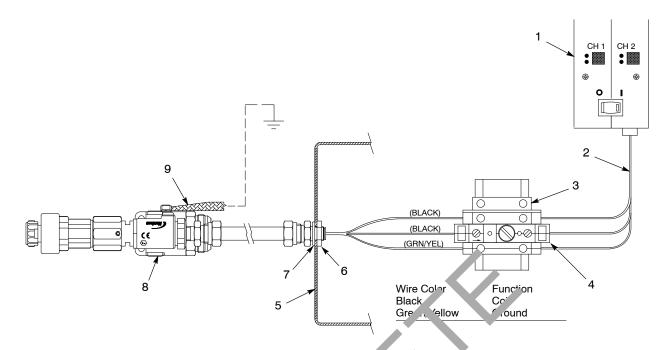


Figure 3 Electrical Connections

- 1. MEG driver or customer-supplied driver
- 2. Customer-supplied wires
- 3. Customer-supplied terminal block
- Fuse holder and 1 amp 1, 'e (optional, refer to Note below
- 5. Customer-supplied junction box
- 7. Seal ring
- 8. MEG II gun
- 9. Ground cable

Note: Fuse holder and 1 amp fuse must be installed if using solvent-based materials. Refer to warning and step 3 on following nage

6. Lock n' .

Nozzle and CleanSlee' a Cove

Jee I gure 2. Remove the nozzle nut (5) from the spray gun (2).

'y that the seat O-ring (3) is installed into the groove in the end of the seat.

OTE: An alternate PTFE O-ring kit is included with the spray gun to replace the seat O-ring for certain applications.

- 3. Insert a nozzle (4) into the nozzle nut.
- 4. Thread the nozzle nut onto the spray gun and tighten it securely with the optional nozzle wrench to 20-27 Nem (15-20 ft-lb). Do not overtighten the nut.
- 5. If desired, install a CleanSleeve cover on the spray gun.

Pressure Transducers

When the MEG II gun is installed as part of a iTrax spray monitor system, install a pressure transducer in the gun manifold to monitor fluid pressure at the gun. Refer to *Pressure Transducers* on page 27 for transducer ordering information.

See Figure 2. Remove a plug and O-ring (9) from one side of the manifold and replace it with a pressure transducer. The port on either side of the manifold can be used. Tighten the transducer securely.

CO-Plate

When the MEG II gun is installed as part of a iTrax spray monitor system, install a CO-plate in the gun manifold to produce a controlled pressure drop when the gun is spraying. Refer to the *CO-Plate Selection Chart* on page 28 for CO-plate ordering information.

See Figure 2. Remove the plug and O-rin (10) from the front of the MEG gun and install a CO-plate in the man old. In the one CO-plate securely.

Operation



WARNING: Allow or, 'qualified', sonnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation



WARN' (G: This equipment can be dangerous unless it is used in accord no with the rules laid down in the manual.

Operation of the MEG II gun is dependent upon the timer with which it is used. By fer to your timer manual for operation procedures.



C AUTION: Damage to the coil may occur if the MEG II gun is triggered ON or long periods of time.

The MEG II gun is designed for high-cycle applications. When flushing the system, do not trigger ON the spray gun for more than 5 seconds.

Troubleshooting



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

This section contains troubleshooting procedures. These procedures cover only the most common problems that you may encounter. If you cannot solve the problem with the information given here, contact your local Nordson representative for help.

	Problem	Possible Cause	Corrective Action
1.	Gun fails to trigger	Poor electrical connections	Check the electrical connections.
		Seat retainer nut too tight	Loosen ine seat retainer nut and tights i it to 7–14 N•m (5–10 ft-lb).
		Bad solenoid coil	Piscon ct the coil wires at the erminal flor (see Figure 3) and check the coil resistance with an ohrometer. Reading should be about 2 ohms. Replace the gun body if the resistance check fails. Use the Body with Coil Service Kit.
		Blown fuse	See Figure 3. Check the fuse (4). If the fuse is blown, a lamp on the fuse holder will flash as the gun is triggered. Remove the fuse from the fuse holder and check it with an ohmmeter. Replace the fuse if blown.
		Brus in modul	Replace the gun module.
2.	Fluid spits or leaks from nozzle	`irtv ∍r w rn 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 Ball and Seat Service Kit
3.	Fluid leaks around nozzle nut	Damaged or worn O-ring	Remove the nozzle nut and nozzle. Replace the O-ring in the seat face.
		Loose nozzle nut	Tighten nozzle nut to 20–27 N•m (15–20 ft-lb).
4.	Fluid leaks from lower manifold	Damaged or worn O-rings	Remove the upper manifold from the lower manifold. Replace the upper manifold O-rings. Replacement O-rings are available separately or as part of the <i>Soft Goods Service Kit</i> .
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 <i>Armature Spring Kit</i> or the <i>Ball and Seat Service Kit</i> .

Part 334669-15

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 gun from the spray machine.

Have the following at hand:

- ball and seat service kit
- petroleum jelly (do not use //-ring lub.

The ball and seat service kin's shipped assembled. It consists of the

seat

spacer

seat O-rings

armature assembly

NOTE: In sect of O-riv gs and replace any that are damaged. Lubricate all O-rings with petroleum jelly before assembly. The soft goods service kit listed in D is in Judes all O-rings used in the MEG gun, or they can be or a ed separately. An alternate PTFE O-ring can be used in the seat insternate of the standard EPR O-ring.

Se Fig re 4.

- 1 If used, remove the CleanSleeve cover from the gun module.
- Unscrew the nozzle nut (6) and remove the nozzle (5).
- 3. Unscrew the seat retainer nut (1) and slide it forward till the ball (3) and seat (4) assembly snaps out.
- 4. Remove the seat (4), spacer (2), and armature assembly (3) from the the gun module.
- Clean the O-ring sealing surface on the inside diameter of the gun module.

- 6. Lubricate the new seat O-rings with petroleum jelly.
- 7. Install the new spacer, armature, and seat (2, 3, and 4) into the end of the body.
 - a. Fit the body pins into the pin sockets in the seat.
 - 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 and push in toward module body to install the ball and seat assembly.

NOTE: The pin sockets in the seat are arranged so you can rotate the seat in 45° increments. Each time you install the seat, rotate it one increment to even out wear on the face of the coil body.

- 8. Slide the seat retainer nut forward and thread it onto the seat. Tighten the seat retainer nut to 6.8–13.5 N•m (5–10 ft-lb).
- Insert the nozzle into the nozzle nut. Thread the nozzle nut onto the seat and tighten it securely with the optimal nozzle wrench to 20–27 N•m (15–20 ft-lb). Do not overtighter, he p. ..

Extended Tip Gun: Make sure you use the first on the extended seat to tighten the nozzle nut with the words. Do not overtighten the nut.

10. If used, install a CleanSler ve cover on, the spray gun.

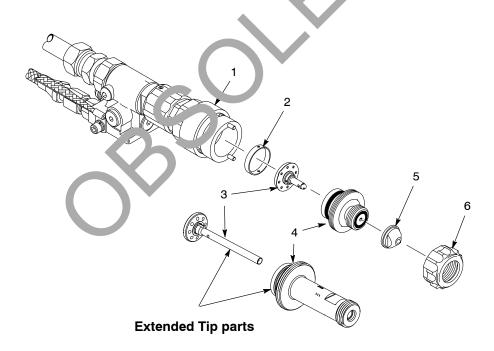


Figure 4 Ball and Seat Replacement

- 1. Seat retainer nut
- 2. Spacer

- 3. Armature assembly
- 4. Seat

- Nozzle
- 6. Nozzle nut

Gun 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 gun module can be replaced without removing the gun from the spray machine.

Have the following at hand:

- module service kit
- petroleum jelly (do not use O-ring lube)

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

- gun module
- gun module O-ring
- seat
- seat O-rings

- spacer
- arma* are assembly
- pazz. rut
- eat reta. Y. nut

NOTE: Inspect all O-rings old reclace any that are damaged. Lubricate all O-rings with petroleum jelly before assembly. The soft goods service kit listed in *Parts* includes all O-ring our ed in the MEG gun, or they can be ordered separately.

- 1. See Figure 7. It u. ed, er ove the CleanSleeve cover from the spray gun.
- 2. Remonthe rozzle nut (7) and nozzle (6).
- 3. Locsep text screw (1) on the gun module nut (2).
- 4 c iscrew the gun module nut. Carefully pull the gun module (4) out of the gin.
- ubreate the gun module O-ring (3) with petroleum jelly.



C NUTION: Make sure you install the new gun module so that the two pins if the gun module fit into the pin sockets in the upper manifold. Failure to do so may damage the gun module.

- Carefully install the new gun module, fitting the pins into the pin sockets in the upper manifold. Tighten the gun module nut to 27–34 N•m (20–25 ft-lb).
- 7. Tighten the set screw on the gun module nut.

- 8. Lubricate the O-ring (5) in the seat face with petroleum jelly.
- 9. Insert the nozzle into the nozzle nut. Thread the nozzle nut onto the spray gun and tighten it securely with the optional nozzle wrench to 20–27 N•m (15–20 ft-lb). Do not overtighten the nut.

Extended Tip Gun: Make sure you use the flats on the extended seat to tighten the nozzle nut with the wrench. Do not overtighten the nut.

10. If used, install a CleanSleeve cover.

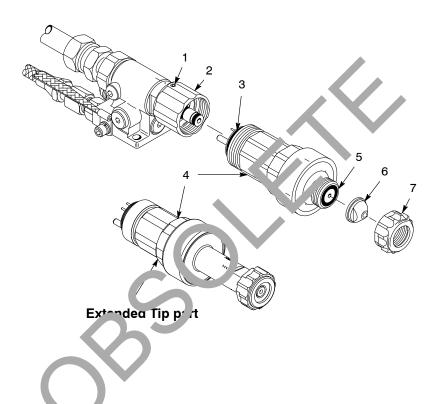


Figure 5 Gun Module Replacement

- 1. Set screw
- 2. Gun module nut
- 3. O-ring

- 4. Gun module
- 5. O-ring

- 6. Nozzle
- 7. Nozzle nut

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.

Have the following at hand:

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

NOTE: Inspect all O-rings and replace any that are damaged. Lubricate all O-rings with petroleum jelly before assembly. The soft goods service kit listed in *Parts* includes all O-rings used in the MEG gun, or they can be ordered separately.

Removal

See Figure 6.

- 1. Make sure all pressure is reliefed and electrical power is removed from the system.
- 2. Remove the MEG II gur from he spray machine.
- 3. Loosen the set screw (13) and the gun module nut (12). Carefully pull the gun module (6, out of the gun.
- 4. Disconnect the gen willing from the terminal block and fuse holder, if used.
- 5. Unscrow the connector gland nut (8) from the connector body (9).
- 6. Un crew ... connector body and manifold lock nut (10) from the upper manifold (3)
- /. L ⊃n uie stop screw (14).
- 8. Pres on the back of the upper manifold to push it out of the lower is alifold (11).
- **N DTE:** You can install the two larger O-rings (1) from the front or the back of the upper manifold. If you install them from the back, you will have to pull the manifold wires all the way out of the conduit and through the manifold lock nut and lower manifold.
- 9. Slide the gun module nut off the upper manifold.
- 10. Remove and discard the O-rings (1, 4, 5).

Installation

- 1. See Figure 6. Lubricate the new O-rings (1, 4, 5) with petroleum jelly and install them onto the upper manifold (3).
- 2. Slide the gun module nut (12) toward the front of the upper manifold until it hits the manifold shoulder.

NOTE: If you pulled the upper manifold wires out of the conduit and lower manifold, thread the wires through the lower manifold (11), the manifold lock nut (10), and the conduit (7) before you insert the upper manifold into the lower manifold.

- Align the upper manifold so the stop screw (14) will go into the hole (2) when tightened. Insert the upper manifold into the lower manifold.
 Make sure that the wrench flats on the upper manifold are positioned as shown.
- 4. Tighten the stop screw.
- 5. Thread the manifold lock nut onto the upper manifold and tighten it securely.
- 6. Thread the connector body (9) into the upper manifold and tighten it securely.
- 7. Thread the gland nut (8) onto the connector body and tighten it securely.
- 8. Carefully install the gun module (6), fitti .g the pins into the pin sockets in the upper manifold.
- 9. Thread the gun module nut onto the gun is not lie. Tighten the nut to 27–34 N•m (20–25 ft-lb).
- 10. Tighten the set screw (13)
- 11. Connect the wiring to the ar ninal hlock and fuse holder, if used.

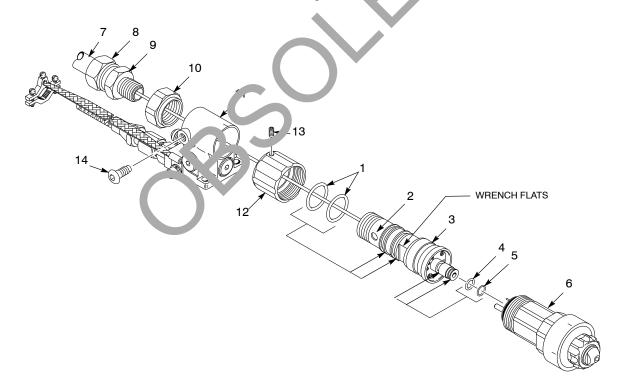


Figure 6 Upper Manifold O-ring Replacement

- 1. O-rings
- 2. Upper manifold groove
- 3. Upper manifold
- 4. O-ring
- 5. O-ring

- 6. Gun module
- 7. Electrical conduit
- 8. Gland nut
- 9. Connector body
- 10. Manifold lock nut

- 11. Lower manifold
- 12. Gun module nut
- 13. Set screw
- 14. Stop screw

Parts

To order parts, call the Nordson Finishing Customer Support Center at (800) 433-9319 or contact your local Nordson representative. Use the parts lists and illustrations to locate and order parts.

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 part part part as its dimensions and other characteristics when appropriate. Indee tions show the relationships between assemblies, subassemblies, and parts

- If you order the assembly .ems 1 and . will be included.
- If you order item 1, item . will be included.
- If you order item 2 you will it selve item 2 only.

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

Letters not on No e column refer to notes at the end of each parts list. Notes comin important information about usage and ordering. Special attention anoul to a given to notes.

Item	Part	Description	Quantity	Note
_	0000000	A sembly	1	
1	000000	Subassembly	2	Α
2	000000	• • Part	1	

Standard Gun Parts

Standard gun 344003 is obsolete and no longer sold. Use this parts list to order available service parts. To replace an entire gun, order a reduced cavity MEG II gun.

See Figure 7 and the following parts list.

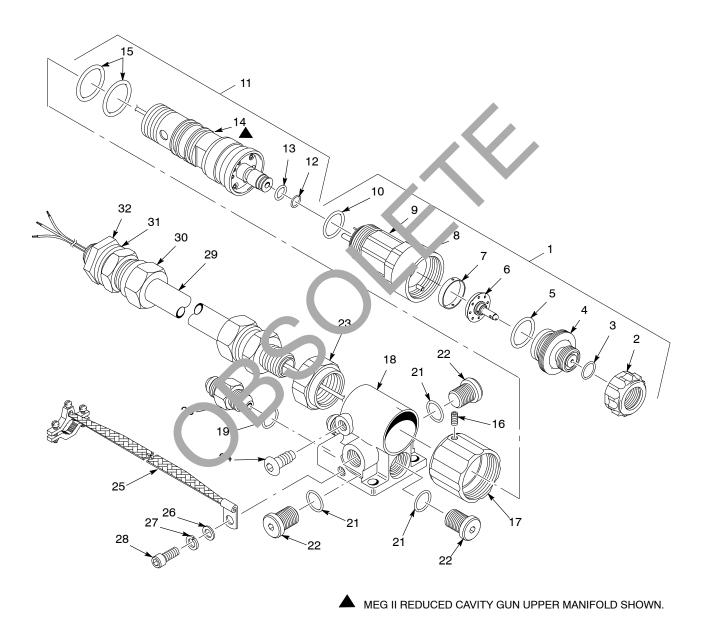


Figure 7 Standard and Reduced Cavity MEG II Spray Gun Parts

Item	Part	Description	Quantity	Note
_	344003	GUN ASSEMBLY, MEG II, (OBSOLETE)	1	
1		MODULE, MEG II	1	Α
2	237401	NUT, nozzle	1	А
3	945067	• • O-RING, EPR, 0.375 x 0.50 x 0.063 in.	1	A, B, C, D, E
4		• • SEAT, MEG	1	A, B
5	339047	• • O-RING, EPR, 0.375 x 0.875 x 0.063 in.	1	A, B, C, D
6		ARMATURE ASSEMBLY, MEG II	1	A, B
7	237399	• • SPACER	1	A, B
8	1014709	NUT, seat retainer	1	А
9		BODY, MEG II	1	A, C
10	940176	• • O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	A, C, D
11	343995	MANIFOLD, upper, MEG II	1	
12	940077	• • O-RING, EPR, 0.156 x 0.281 x 0.063 in.	1	D
13	340263	• • O-RING, EPR, 0.188 x 0.312 x 0.063 in.	1	D
14		MANIFOLD, upper, potted	. 1	
15	941163	• • O-RING, EPR, 0.625 x 0.75 x 0.063 in.	2	D
16	982290	SCREW, set, cup, M4 x 4, stainless stee!		
17	343999	NUT, gun module, MEG II	1	
18	1060502	MANIFOLD assembly, lower	1	
19	945064	O-RING, EPR, ⁵ / ₁₆ -in. tube	2	D
20	972013	CONNECTOR, 37 hyd, ¹ / ₂ - ¹ 0, st uight thread	2	
21	945087	O-RING, EPR, ³ / ₁₆ -in tube	3	D
22	324172	• • PLUG, MEG	3	
23	243632	NUT, lock, man ⁱ Jid	1	
24	237035	SCREW, stop, V16	1	
25	343991	CLAMP, ground, with wir	1	
26	983047	WASH' _R, flat M4, stainless steel	1	
27	983403	WASH, To lock, I, split, M4, steel, zinc	1	
28	340264	• Jon FW, socks, M4 x 5, steel, zinc	1	
29	179416	CO' De T, liquid tight, 1/4 x 56 in.	1	
30	972239	• NNF TOR, 1/4-in. conduit x 1/4-in. NPT	2	
31	955063	• RIN sealing, 1/4 in.	1	
32	98420	• UT, lock, ¹ / ₄ in.	1	
NS	247646	CARD, medical alert, injection	1	Α
NS	981893	• SCREW, socket, 10–32 x 0.50 in., zinc	2	
NS	945067	 O-RING, EPR, 0.375 x 0.50 x 0.063 in. 	10	Α
NS	1008326	FUSE HOLDER, 5 x 20, screw cap, DIN 35	1	
NS	239213	 FUSE, 1A, slo-blo, 250V, 5 x 20 mm 	2	

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

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

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

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

E: Alternate PTFE O-ring included in part 1073596, Kit, O-ring PTFE, shipped with gun.

NS: Not Shown

Reduced Cavity Gun Parts

See Figure 7. Check your gun part number and use the correct parts list for your spray gun.

Item	Part	Description	Quantity	Note
_	1602877	GUN ASSEMBLY, MEG II, reduced cavity	1	
1		MODULE, MEG II, reduced cavity	1	Α
2	237401	• • NUT, nozzle	1	Α
3	945067	• • O-RING, EPR, 0.375 x 0.50 x 0.063 in.	1	A, B, C, D, E
4		SEAT, reduced cavity	1	A, B
5	339047	• • O-RING, EPR, 0.375 x 0.875 x 0.063 in.	1	A, B, C, D
6		ARMATURE ASSEMBLY, MEG II	1	A, B
7	237399	• • SPACER	1	A, B
8	1014709	NUT, seat retainer	1	А
9		BODY, MEG II	1	A, C
10	940176	• • O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	A, C, D
11	343995	MANIFOLD, upper, MEG II	1	
12	940077	• • O-RING, EPR, 0.156 x 0.281 x 0.063	1	D
13	340263	• • O-RING, EPR, 0.188 x 0.312 x 0.0 3 in	1	D
14		MANIFOLD, upper, potted	1	
15	941163	• • O-RING, EPR, 0.625 x 0.75 (0.06°) in.	2	D
16	982290	SCREW, set, cup, M4 x 4, stai. 'er , steel	1	
17	343999	NUT, gun module, MEG II	1	
18	1060502	MANIFOLD assembly, r ver	1	
19	945064	• • O-RING, EPR 7,10 tu >	2	D
20	972013	• • CONNECTC ₹, 37 hyc. 1/2-∠0, straight thread	2	
21	945087	• • O-RIN', PR, "/ir (ube	3	D
22	324172	• • PLL 3, MF.	3	
23	243632	NUT, lock, manifild	1	
24	237035	• SCF FW, s , M6	1	
25	343991	Cl MP, round, with wire	1	
26	983047	い `SHr ハ, flat, M4, stainless steel	1	
27	983407	VASHER, lock, M, split, M4, steel, zinc	1	
28	340264	CREW, socket, M4 x 5, steel, zinc	1	
29	179416	CONDUIT, liquid tight, ¹ / ₄ x 56 in.	1	
30	972239	 CONNECTOR, ¹/₄-in. conduit x ¹/₄-in. NPT 	2	
31	955063	 RING, sealing, ¹/₄ in. 	1	
32	984200	NUT, lock, ¹ / ₄ in.	1	
NS	247646	CARD, medical alert, injection	1	Α
NS	981893	 SCREW, socket, 10–32 x 0.50 in., zinc 	2	
NS	945067	O-RING, EPR, 0.375 x 0.50 x 0.063 in.	10	Α
NS	1008326	• FUSE HOLDER, 5 x 20, screw cap, DIN 35	1	
NS	239213	 FUSE, 1A, slo-blo, 250V, 5 x 20 mm 	2	

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

- B: These parts are included in part 1062095 Service Kit, Ball and Seat, MEG II, Reduced Cavity.
- C: These parts are included in part 343993 Service Kit, Body with Coil, MEG II.
- D: These parts are included in part 343989 Service Kit, Soft Goods, EPR, MEG.
- E: Alternate PTFE O-ring included in part 1073596, Kit, O-ring PTFE, shipped with gun.

NS: Not Shown

Extended Tip Gun Parts

Figure 8. Check your gun part number and use the correct parts list for your spray gun.

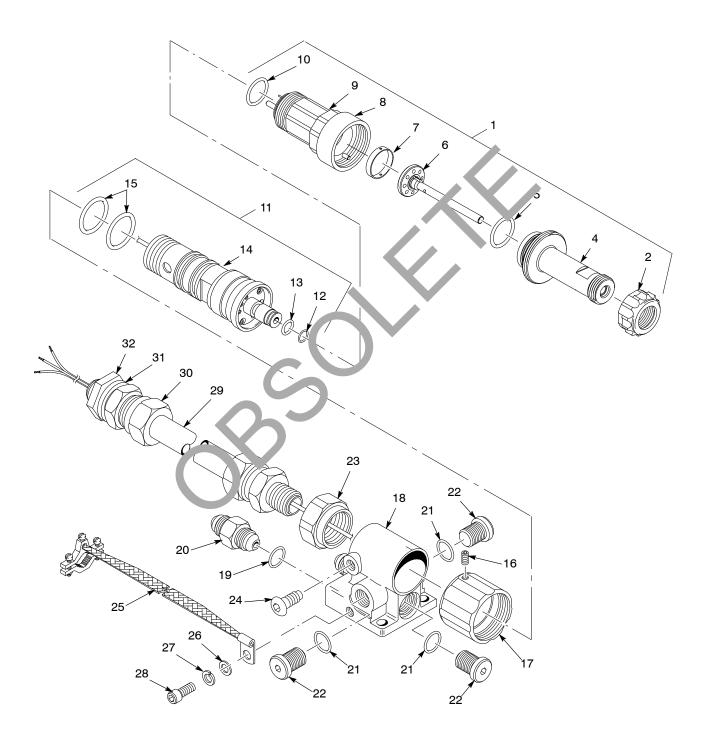


Figure 8 Extended Tip MEG II Spray Gun Parts

Item	Part	Description	Quantity	Note
_	1076017	GUN ASSEMBLY, MEG II, extended tip	1	
1		MODULE, MEG II, extended	1	Α
2	237401	• • NUT, nozzle	1	A,F
4		• • SEAT,	1	A, B, F
5	339047	• • O-RING, EPR, 0.375 x 0.875 x 0.063 in.	1	A, B, C, D
6		ARMATURE ASSEMBLY, MEG II	1	A, B
7	237399	• • SPACER	1	A, B
8	1014709	NUT, seat retainer	1	Α
9		BODY, MEG II	1	A, C
10	940176	• • O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	A, C, D
11	343995	MANIFOLD, upper, MEG II	1	
12	940077	• • O-RING, EPR, 0.156 x 0.281 x 0.063 in.	1	D
13	340263	• • O-RING, EPR, 0.188 x 0.312 x 0.063 in.	1	D
14		MANIFOLD, upper, potted	1	
15	941163	• • O-RING, EPR, 0.625 x 0.75 x 0.063 in.	2	D
16	982290	SCREW, set, cup, M4 x 4, stainless steel	1	
17	343999	NUT, gun module, MEG II	ı	
18	1060502	MANIFOLD assembly, lower	1	
19	945064	O-RING, EPR, ⁵ / ₁₆ -in. tube	2	D
20	972013	CONNECTOR, 37 hyd, ¹ / ₂ –2′, straight thread	2	
21	945087	O-RING, EPR, ³ / ₁₆ -in. tube	3	D
22	324172	• • PLUG, MEG	3	
23	243632	NUT, lock, manifold	1	
24	237035	SCREW, stop, 1.0	1	
25	343991	CLAMP, groun , with wire	1	
26	983047	WASHEP flat, '4, stair ess steel	1	
27	983403	WASH ZR, lock M, Split, M4, steel, zinc	1	
28	340264	SCRE	1	
29	179416	• Juli DUIT, liau tight, 1/4 x 56 in.	1	
30	972239	CO' NE TOR, 1/4-in. conduit x 1/4-in. NPT	2	
31	955063	• , NG, s aling, 1/4 in.	1	
32	984200	• NU Jck, ¹ / ₄ in.	1	
NS	24764	ARD, medical alert, injection	1	Α
NS	981893	• 3CREW, socket, 10-32 x 0.50 in., zinc	2	
NS	945067	O-RING, EPR, 0.375 x 0.50 x 0.063 in.	10	Α
NS	1008326	FUSE HOLDER, 5 x 20, screw cap, DIN 35	1	
NS	239213	 FUSE, 1A, slo-blo, 250V, 5 x 20 mm 	2	

NOTE A: These parts are included in part 1075291 Service Kit, Module, MEG II, Extended Tip.

- B: These parts are included in part 1076115 Service Kit, Ball and Seat, MEG II, Extended Tip.
- C: These parts are included in part 343993 Service Kit, Body with Coil, MEG II.
- D: These parts are included in part 343989 Service Kit, Soft Goods, EPR, MEG.
- E: Alternate PTFE O-ring included in part 1073596, Kit, O-ring PTFE, shipped with gun.
- F: When installing the nozzle nut on the spray gun, make sure you use the flats on the extended seat to tighten the nozzle nut with the wrench. Do not overtighten the nut.

NS: Not Shown

Special Tools

Not Included with the MEG II Guns

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

Service Kits

The following service kits are available for a MEG of gun. Keep these kits on hand to reduce downtime.

Module Service Kits

Item	Part	Description	Quantity	Note
	1062094	SERVICE KIT, module, MFG II, reduce vavity	1	Α
	1075291	SERVICE KIT, module, MEC II, extended tip	1	В
1		MODULE, MEG.,	1	
2	237401	• • NUT, nozzle	1	
3	945067	• • O-RING EPI 0.375 x J.500 x 0.063 in.	1	С
4		• • SEA , MEG	1	
5	339047	• • O-R IC _PR, 0.375 x 0.875 x 0.063 in.	1	
6		MATURE SSEMBLY, MEG II	1	
7	237399	• ST TR	1	
8	1014709	• • VUT, seat retainer	1	
9		トンデイ, MEG II	1	
10	94017	O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	
NS	247646	CARD, medical alert, injection	1	

NOTE A: See Figure 7.

B: See Figure 8.

C: This O-ring is not included with the Extended Tip Module Service kit, part 1075291.

NS: Not Shown

Ball and Seat Service Kits

See Figures 7 and 8.

Item	Part	Description	Quantity	Note
	1062095	SERVICE KIT, ball and seat, MEG II, reduced cavity	1	Α
	1076115	SERVICE KIT, ball and seat, MEG II, extended tip	1	В
3	945067	O-RING, EPR, 0.375 x 0.500 x 0.063 in.	1	С
4		SEAT, MEG	1	
5	339047	O-RING, EPR, 0.375 x 0.875 x 0.063 in.	1	
6		ARMATURE ASSEMBLY, MEG II	1	
7	237399	SPACER	1	

NOTE A: See Figure 7.

B: See Figure 8.

C: This O-ring is not used with the MEG II Extended Tip spray gun, part 107 017.

Body with Coil Service Kit

See Figures 7 and 8.

Item	Part	Description Quantity No						
_	343993	SERVICE KIT, body with coil, MEG II	1					
3	945067	• O-RING, EPR, 0.375 x € 500 x 0.063 in.	1	Α				
5	339047	• O-RING, EPR, C 575 . 9.8, 7x / .063 in.	1					
9		BODY, MEG II	1					
10	940176	• O-RING, EPR, 688 x 0 ,13 x 0.063 in.	1					
NOTE A: Th	is O-ring is not	used with the MEG II Ex. Jd Tip spray gun, part 107	6017.					

`on Goods Service Kit

Se Figures 7 and 8.

Item	Part	Description	Note	
_	343989	SERVICE KIT, soft goods, EPR, MEG	1	
3	945067	O-RING, EPR, 0.375 x 0.500 x 0.063 in.	1	Α
5	339047	 O-RING, EPR, 0.375 x 0.875 x 0.063 in. 	1	
10	940176	O-RING, EPR, 0.688 x 0.813 x 0.063 in.	1	
12	940077	O-RING, EPR, 0.156 x 0.281 x 0.063 in.	1	
13	340263	O-RING, EPR, 0.188 x 0.312 x 0.063 in.	1	
15	941163	 O-RING, EPR, 0.625 x 0.750 x 0.063 in. 	2	
19	945064	O-RING, EPR, ⁵ / ₁₆ -in. tube	2	
21	945087	O-RING, EPR, ³ / ₁₆ -in. tube	3	
NOTE A: Th	nis O-ring is not	used with the MEG II Extended Tip spray gun, part 107	6017.	

PTFE O-Ring Kit

See Figure 7. This kit is shipped with the reduced cavity version of the spray gun. The O-ring replaces the nozzle seat O-ring for certain applications.

NOTE: This kit is not used with the MEG II Extended Tip spray gun, part 1076017.

Item	Part	Description	Quantity	Note
_	1073596	KIT, O-ring, PTFE, MEG gun	1	
3	940124	O RING,PTFE, 0.375 X 0.50 X 0.06 in.	5	

Armature Spring Kit

See Figure 9. This kit is used with all three versions of the MEG II spray gun.

Item	Part	Description	√₄uantity	Note
_	1606337	KIT, spring, MEG II	1	
1	340263	• O-RING, EPR, 0.188 x 0.312 x 6.363 in.	1	
2	940077	O-RING, EPR, 0.156 x 0.281 0.06′ in.	1	
3	940176	O-RING, EPR, 0.688 x 0.813 x 63 in	1	
4	339047	• O-RING, EPR, 0.750 × 0.875 x 0.0 3 .1.	1	
5	945067	• O-RING, EPR, 0.375 x 0. 100 x 0.063 in.	1	Α
6		• SPRING, flat, 0 .058	1	
7		WASHER, Del n, 0.254 2 0.344 x 0.028 in.	1	
8		BUSHING arm ture, 1/, 28 thread	1	
9		• SPAC' A	1	
NS	900200	ADHE "/ , thre dlocking	1	
NS	1046818	TO' _, rmature ar sembly	1	В

NOTE A: This O-ring is not use with the 1EG II Extended Tip spray gun, part 1076017.

B: The armature assembly of mu , be ordered separately.

NS: Not Shown

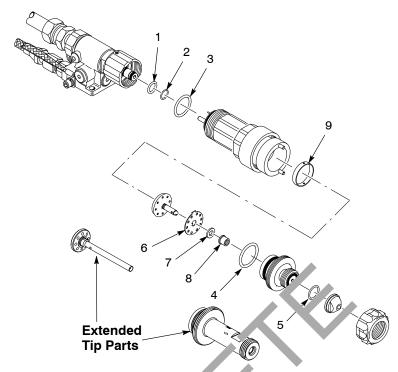


Figure 9 Armature Spring Kit

Optional Equipment

90 Degree Capie Rc ซ่าเg Fitting Kit

The 90 degree fitting kit is used as a mechanism to route gun hoses and cables to appropriate location.

Item	Part	C scription	Quantity	Note
_	1609137	KI ⁻ , fittil as, 90 ⁻¹ gree routing, MEG II gun	1	
1	945064	• O- ^r ₁ NG ₁ EPR, ⁵ / ₁₆ -in. tube	2	
2		F. ∇IN′., strain, ½–20 M x ½–20 F	1	
3	972367	• ₹LB W, swivel, 37, ½-20 M, 5/16 in., SSTL	2	
4		IPPLE, ¼ NPT x 1.5 in., stainless steel	1	
5	973141	ELBOW, male, pipe, hydraulic, ¼ in., SSTL	1	

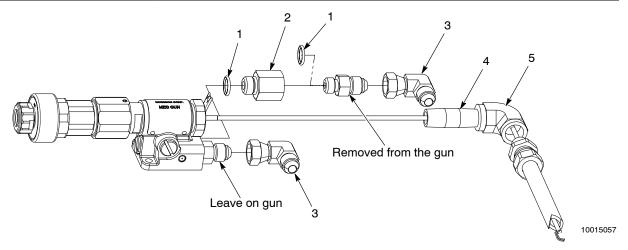


Figure 10 90 Degree Cable Routing Fitting Kit

CleanSleeve Covers

Part	Description	Note					
149237	149237 COVER, CleanSleeve, mini, 500 pieces						
1618384	4 KIT, cover, CleanSleeve, MEG® gun, slip fit, 12 pieces						
NOTE A: S	NOTE A: Single-use cover.						
B: Reusable cover.							
C: Includes a total of 500 CleanSleeve covers, in 20 packs of 25.							

Nozzle Wrench

D: Works on MEG II reduced cavity spray guns

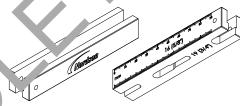
Part	Description	Note			
163945	WRENCH, nozzle				
1618632	KIT, wrench, nozzle, multipurpose				
NOTE A: U	Used specifically for tapered container nozzles and CleanSpray nozzler				
Α		sed for the following nozzles: tapered, cross-cut, minimum cavity, (eanS ay, and short press-in.			

Nozzle Wrench



Figure 11 Nozzle Wrenches

Multipurp `e Nozzle Wrench



Prossure Transducers

Use Jue transducers with the iTrax spray monitor system.

Part	Description	Note
771220	600 psi trι nsducer ε id amplifier	
333055	1500 psi tra. educe and amplifier	

CO-Plate Selection Chart

Use CO-plates with the iTrax spray monitor system. Contact your Nordson representative for more information on CO-plates for your application.

Table 1 CO-Plate Selection Chart

Nozzle					ray Pressi bar (psi) pring Rang				
Size	13.8	20.7	27	34	41	48	55	62	70
	(200)	(300)	(400)	(500)	(600)	(700)	(800)	(900)	(1000)
	[0-500]	[0-500]	[0–500]	[0–800]	[0–800]	[0–800]	[0–1500]	[0-1500]	[0–1500]
0.015	337987	337987	337988	337989	337989	337990	337990	337991	337991
	(015)	(015)	(020)	(025)	(025)	(030)	(030)	(040)	(040)
0.030	337988	337990	337991	337991	337992	337992	37993	337994	337994
	(020)	(030)	(040)	(040)	(050)	(050)	(060)	(075)	(075)
0.040	337990	337991	337992	337993	337993	337995	7994	337995	337997
	(030)	(040)	(050)	(060)	(060)	(C J)	(075)	(090)	(120)
0.060	337991	337993	337994	337994	337995	37 75	3、997	337999	338000
	(040)	(060)	(075)	(075)	(090)	(090)	(120)	(160)	(200)
0.075	337992	337994	337995	337996	337º /	237997	337998	337999	338000
	(050)	(075)	(090)	(105)	(12.	(120)	(140)	(160)	(200)
0.090	337993	337994	337995	337996	337998	3′ /999	338000	338000	338000
	(060)	(075)	(090)	(105)	(140)	(160)	(200)	(200)	(200)
0.120	337995 (090)	337996 (105)	337998 (140)	337° (60)	5.300r (2c)	338000 (200)	338000 (200)	338000 (200)	338001 (250)
0.140	337996	337997	337998	3, 3000	38001	338002	338002	338002	338002
	(105)	(120)	(140)	(½ 7)	(250)	(300)	(300)	(300)	(300)
	O-P → art Number → 337987								

(015) \leftarrow CO-Piace Designation Number on front of CO-Plate

NOTE: Spring range is pressive range of pring used in pressure control system regulator.

Specifications

Item	Specification
Dimensions	See Figure 12
Electrical Requirements	48 Vdc, 3 amps for 3 msec and 1 amp holding
Fluid Pressure	83 bar (1200 psi)
Fluid Temperature	79 °C (175 °F)
Nozzle Flow Rate	0.001-0.013 l/sec (0.015-0.2 gpm)
рН	6.5–8.5
Viscosity	15–40 sec with Zahn 2 cup at 21 °C (70 °F)
Weight	0.75 kg (1.6 lb)

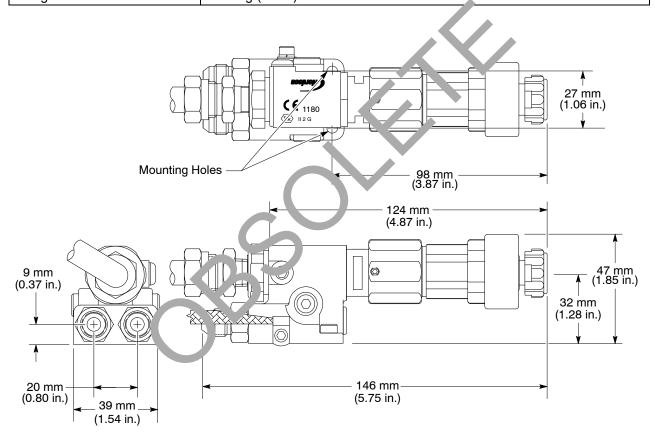


Figure 12 Gun Dimensions for Standard and Reduced Cavity Spray Guns

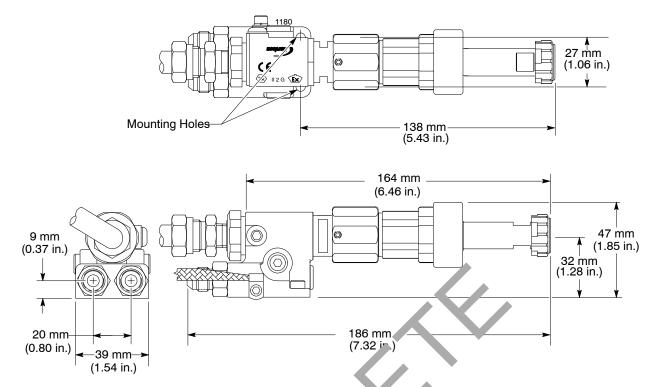


Figure 13 Gun Dimensions for the Extended Tip Spray Gun

Ratings and Label Information

See Figure 14



Figure 14 MEG II Gun Label (1610768)