Encore® Automatic Powder Spray Guns Customer Product Manual

Customer Product Manual Document Number 1098185-21 Issued 12/23



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

This document is subject to change without notice. Check http://emanuals.nordson.com for the latest version.



Table of Contents

Safety	1
Introduction	
Qualified Personnel	1
Intended Use	
Regulations and Approvals	
Personal Safety	2
Fire Safety	
Grounding	
Action in the Event of a Malfunction	<u>ט</u>
Disposal	
Description	
Specifications	
Specifications (contd)	
Encore Automatic Spray Guns	
Applicator Certification Label	
Serial Number Label	<u>o</u>
Special Conditions for Safe Use	
Dimensions and Weights	
Installation	<u>.</u>
Tube-Mount Guns	
Bar-Mount Guns	
Gun Connections.	
Ion Collector Installation	
Bar Mount Gun	
Tube-Mount Gun	
Adjusting the Ion Collector Rod	
Operation	
Changing Flat Spray Nozzles	14
Changing Optional Deflectors and Conical Nozzles	15
Maintenance	16
Daily Maintenance	<u>16</u>
Daily Maintenance (contd)	17
Troubleshooting	<u>18</u>
General Troubleshooting Chart	10
Power Supply Resistance Test	. 21
Electrode Assembly Resistance Test	. <u>22</u>
Cable Continuity Tests	<u>22</u>
Gun Receptacle Harness	<u>22</u>
Gun Extension Cable	<u>23</u>
Gun Cable	<u>23</u>
Repair	<u>24</u>
Powder Wear Parts Replacement	<u>24</u>
Tube-Mount Gun Repair	<u>25</u>
Cable Continuity Tests. Gun Receptacle Harness Gun Extension Cable Gun Cable Repair Powder Wear Parts Replacement Tube-Mount Gun Repair Tube-Mount Gun Disassembly	<u>25</u>
rube-would duit Assembly	<u>23</u>
Bar-Mount Gun Repair	
Bar-Mount Gun Disassembly	<u>30</u>

1	Parts	<u>34</u>
1	Tube-Mount Gun Parts	<u>34</u>
1	Standard 5-Foot Tube-Mount Gun Parts List	<u>35</u>
1	Bar-Mount Gun Parts	<u>38</u>
1	Bar-Mount Gun Parts List	<u>39</u>
2	Options	<u>41</u>
2	Six-Foot Tube Mount Gun	<u>41</u>
3	Hose Hanger	<u>41</u>
3	Cables	<u>41</u>
3	Flat Spray Nozzles	<u>42</u>
4	Cross-Cut Nozzles	<u>42</u>
5	45-Degree Corner-Spray Nozzle	<u>43</u>
<u> </u>	45-Degree In-Line Flat-Spray Nozzle	
<u>3</u>	Conical Nozzle, Deflectors and Electrode Assembly Parts	<u>44</u>
<u>3</u>	Conical Nozzle and Deflectors	<u>44</u>
<u> </u>	Conical Electrode Assembly	<u>45</u>
<u> </u>	XD Electrode Support	<u>45</u>
7	Encore Angled Spray Extensions	
	Tube-Mount Gun Mouring Assemblies	<u>47</u>
<u>8</u>	Standard Mount Astembly	
9	Pivot Mount Assen V.	<u>47</u>
<u>C</u>	Extrusion Mover Assembly.	<u>48</u>
<u>1</u>	Gun Bar for a Mount Cos	<u>49</u>
1	Ion Collector Kit	<u>50</u>
2		
3		
4		
4		
5		
<u>6</u> 7 8		
7		
<u>8</u>		
0		

Contact Us

Nordson Corporation welcomes requests for information, comments, and inquiries about its products. General information about Nordson can be found on the Internet using the following address:

Bar-Mount Gun Assembly33

http://www.nordson.com.

Address all correspondence to:

Nordson Corporation Attn: Customer Service 555 Jackson Street Amherst, OH 44001

Notice

This is a Nordson Corporation publication which is protected by copyright. Original copyright date 2010. No part of this document may be photocopied, reproduced, or translated to another language without the prior written consent of Nordson Corporation. The information contained in this publication is subject to change without notice.

Trademarks

Encore, iControl, Nordson and the Nordson logo are registered trademarks of Nordson Corporation. All other trademarks are the property of their respective owners

Change Record

Revision	Date	Change
06 01/14		Page 34 and 37 - Added electrode assembly, flat spray
	01/14	Page 42 - Added conical nozzle kit and conical electrode assembly
07	05/14	Page 43 - Added angled spray extension options
08	06/14	New socket head screws, new nozzle P/N's
09	07/14	New flat and conical electrode holders
10	08/14	New mount tube part number
11	09/14	Bar mount adapter assembly drawing revision
12	01/16	Revised for use with Encore XT controllers
13	10/16	Nozzle part number change and ion collector plug added
14	2/18	Added label changes.
15	9/17	Change part number 1003572 to 1612462.
16	Added Encore XD electrode support option. Chang part number 160698	
47	0/40	updated power supply resistance test
17	3/19	Page 34 - New part numbers for 5-foot tabe-1 ount spray guns
18	7/21	Updated o-ring 940156 to 1036432
18 Update	11/21	Updated power supply resistence est gure
19	2/22	Page 38 - Removed callout 27 (ball).
	2,22	Page 39 - Removed item 27 (all) from parts list.
20 5/22 Updated UKCA Compliance. 21 12/23 Updated range for resistence est.		·
		Updated range for resistence est.



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 these described in the documentation supplied with the equipment may result in injury to property.

Some examples of unintended use of equipment include

- · using incompatible materials
- making unauthorized modifications
- removing or bypassing safety guart or interlocks
- using incompatible or damaged parts
- using unapproved uxiliary equations
- operating equipment in excess of maximum ratings

Regulations and Approvals

Make size 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.

All phases of equipment installation must comply with all federal, state, and local codes.

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 any 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.
- Obtain and read Material 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.
- To prevent injury, be aware of less-obvious de tigers in the workplace that often cannot be completely eliminated, such as hot surfaces, marp edges, energized electrical circuits, and moving parts that cannot be enclosed by otherwise guarded for practical reasons.

Fire Safety

To avoid a fire or explosion, follow the in ructions.

- 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 megor m.
- Shut down alto uip, ent immediately if you notice static sparking or arcing. Do not restart the equipment until the cause has been identified and corrected.
- Do not moke, weld grind, or use open flames where flammable materials are being used or stored. So not heat materials to temperatures above those recommended by the canulacturer. Make sure heat monitoring and limiting devices are working proper.
- Provine adequate ventilation to prevent dangerous concentrations of volatile particles or valors. 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.

Grounding



WARNING: Operating faulty electrostatic equipment is hazardous and can cause electrocution, fire, or explosion. Make resistance checks part of your periodic maintenance program. If you receive even a slight electrical shock or notice static sparking or arcing, shut down all electrical or electrostatic equipment immediately. Do not restart the equipment until the problem has been identified and corrected.

Grounding inside and around the booth openings must comply with NFPA requirements for Class II, Division 1 or 2 Hazardous Locations. Refer to NFPA 33, NFPA 70 (NEC articles 500, 502, and 516), and NFPA 77, latest conditions.

- All electrically conductive objects in the spray areas shall be electrically connected to ground with a resistance of not more than 1 megohm as measured with an instrument that applies at least 500 volts to the circuit being evaluated.
- Equipment to be grounded includes, but is not limited to, the floor of the spray area, operator platforms, hoppers, photoeye supports, and blow-off nozzles. Personnel working in the spray area must be grounded.
- There is a possible ignition potential from the charged human body. Personnel standing on a painted surface, such as an operator platform, or wearing non-conductive shoes, are not grounded. Personnel dust wear shoes with conductive soles or use a ground strap to maintain a sonnection of ground when working with or around electrostatic equipment.
- Operators must maintain skin-to-candle contact between their hand and the gun handle to prevent shocks while operating manual electrostatic spray guns. If gloves must be worn, cut away the palm of fingers, wear electrically conductive gloves, or wear a grounding strap connected to the gun handle or other true earth ground.
- Shut off electrostatic power samples and ground gun electrodes before making adjustments or cleaning pooler spray guns.
- Connect all disconly cted equipment, ground cables, and wires after servicing equipment

Action in the Event of a Malfanction

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 shut of 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

Encore® automatic electrostatic powder spray guns are available in tube-mount or bar-mount versions. The 152.4 cm (5-ft) tube-mount gun is standard; an optional 182.8 cm (6-ft) tube-mount gun is available. The bar-mount gun includes a swivel mount that fits into the end of the optional gun bar.

The guns are equipped with a 100 kV integral voltage multiplier and electrode air-wash to prevent powder from collecting on the electrode. The guns have a straight-through powder path to minimize impact fusion and a quick-disconnect powder hose connector for quick color change.

The guns can be used with the Nordson iControl® system or Encore LT automatic controllers, which provide electrostatic voltage control, electrode air-wash air, and powder pump air.

Flat spray nozzles with 2.5 and 4-mm slots are shipped with the guns. Optional equipment includes:

- 8, 12, and 16-meter (26, 39, 52-ft) control cables
- Standard, pivoting, and fixed extrusion gun munts for tube-mount guns
- Gun bar with 4-foot (121-cm) bar and clared for 5-mm (1-in.) mounting bars
- Angled spray extensions
- · Ion collector kit
- A variety of flat, conical, and crossort nozzles



Figure 1 Bar-Mount and Tube-Mount Guns

Specifications

Input Rating	Output Rating
+/- 19 VAC, +/-1 A (Peak)	100 KV, 100 μA

- Air Quality: <5µ particulates, dew point <10 °C (50 °F)
- Max Relative Humidity: 95% non-Condensing
- Ambient Temperature Rating: +15 to +40 °C (59-104 °F)
- Hazardous Location Rating for Applicator: Zone 21 or Class II, Division 1



Specifications (contd)

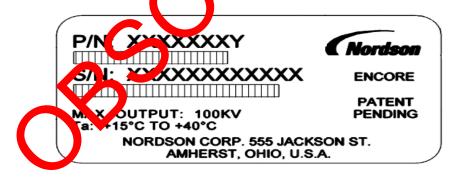
Encore Automatic Spray Guns

Applicator Certification Label



Serial Number Label

NOTE: The gun serial number contains the location, year, and month it was manufactured. The serial number starts with "AA10A". The "AA" means the product was built in Amherst, Ohio, the "16 meaning the year 2010. The "A" means the month of January, "B" would be rebit ry, but so on.



Special Conditions for Safe Use

- The Encore automatic applicator shall only be used with the associated Encore LT controllers, Encore iControl 2, or Encore XT controllers over the ambient temperature range of +15°C to +40°C.
- The equipment must be installed in accordance with standard EN50177.
- When used with the Encore XT controllers, equipment may only be used in areas of low impact risk.
- Caution should be taken when cleaning plastic surfaces of the controllers. There is a
 potential for static electricity buildup on these components.

Dimensions and Weights

Bar-Mount Gun Weight: 651 grams (1.44 lb)

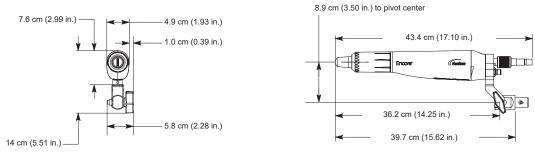




Figure 2 Encore Automatic Gun Dime Sion and Weights

Installation

Tube-Mount Guns

See Figure 3. Mount the tube-mount gun on a fixed gun stand, oscillator, or reciprocator using one of the mounting kits as shown below. Refer to page 45 for the tube mount assembly part numbers.

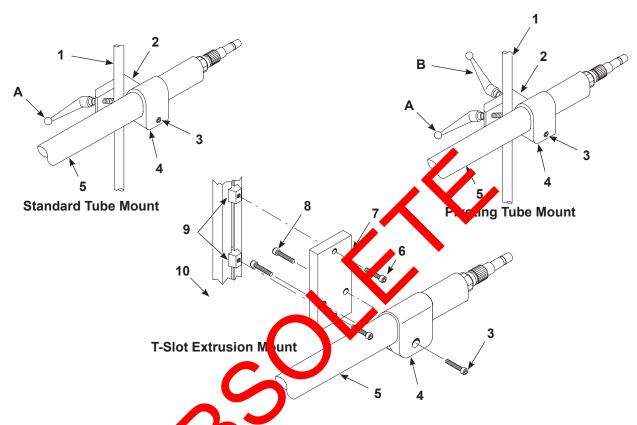


Figure 3 Tube-Mount Gun Mounting Assemble

1. Mounting bar 25.4-mm (1-in.)

2. Clamp

3. Clamping screw

4. Mounting sleeve

Gu mounting tube

6. M8 x 30 screws

7. Support plate

8. 3/8-16 x 1-in. long screws

9. T-slot nuts

10. T-slot extrusion (see Note)

A. Clamping handle

B. Pivot handle

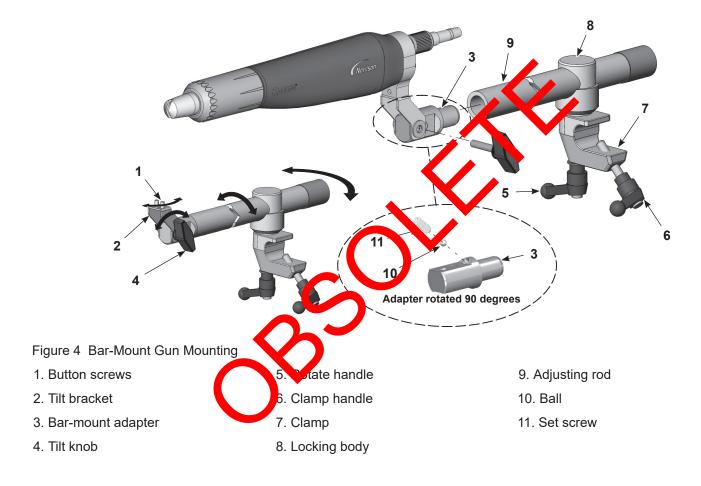
NOTE: Not included in kit.

Bar-Mount Guns

See Figure 4. Install the gun bar-mount adapter (3) into the end of the adjusting rod (9) and secure it by tightening the set screw (11) with a 4-mm hex key. Refer to page 47 for the gun bar part number.

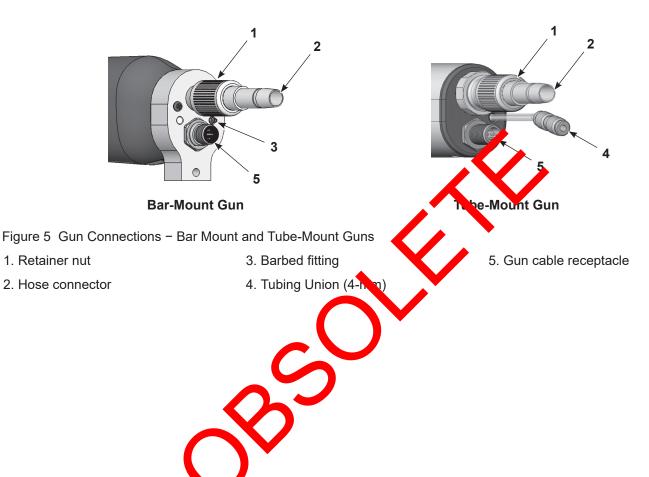
- To move the gun tip from side to side, loosen the right button screw (1).
- To tilt the gun tip up or down, loosen the tilt knob (4).
- To rotate the adjusting bar on the locking body (8) axis or in the locking body, loosen the rotate handle (5).

To mount the gun on a fixed gun stand, oscillator, or reciprocator, position the clamp (7) on a 1 inch mounting bar and tighten the clamp handle (6).



See Figure 5.

- 1. Connect the powder feed hose to the hose connector (2). The connector can be disconnected from the gun by unscrewing and pulling back on the retainer nut (1).
- 2. Connect 4-mm clear electrode air-wash tubing to the barbed fitting (3) (bar-mount gun) or tubing union (4) (tube-mount gun).
- 3. Connect the gun cable to the receptacle (5) and tighten the cable nut securely.



Ion Collector Installation

The ion collector can improve the smoothness and appearance of cured powder coatings. It collects ions emitted from the gun's charging electrode instead of allowing them to deposit on the part. This reduces the rate of charge buildup in the powder deposited on the part, which may reduce defects in the cured coating such as pin-holing and orange

Refer to the *Parts* section for the kit part number.

The ion collector kit can be used on both the bar-mount and tube-mount guns. After installing the ion collector, adjust the collector rod position for best results as described in Adjusting the Ion Collector Rod.

Bar Mount Gun

- 1. See Figure 6. Insert the collector rod (1) into the grounding plate and secure it with the M5 x 8 set screw (6) included in the ion collector kit.
- 2. Attach the multi-point tip (7) to the collector rod with the M3 x 8 screw (8).



Figure 6 Ion Collector Installation - Bar Moun

Tube-Mount Gun

NOTE: The mounting hole must remain plugged for optimal performance. If the ion collector is removed, replace it with the appropriate plug. The mounting plug part number is listed in the Parts section of this manual.

NOTE: The ion collector mounting hole must be installed towards the front of the gun as shown in Figure 7. If the ion collector hole is installed towards the far rear, it must be reversed to allow access to the grounding plate in the rear body assembly. Perform Steps 1-7 of the tube-mount dis-assembly procedure on page 25 to remove the tube. then turn it around and re-assemble the gun.

- 1. Remove the plug from the mounting hole (5) if applicable.
- 2. Secure the post (2) to the grounding plate with the socket head screw (3).
- 3. Insert the collector rod (1) into the post and secure it with the M10 x 10 nylon-tipped set screw (4).
- 4. Attach the multi-point tip (7) to the collector rod with the M3 x 8 screw (8).

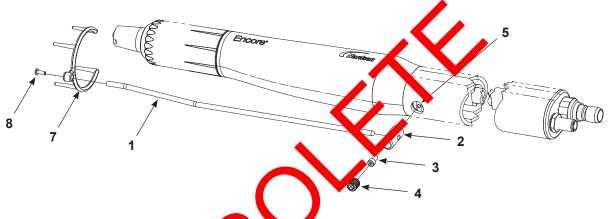


Figure 7 Ion Collector Installation - Tube Mou Gun

- 1. Collector rod
- 2. Post
- 3. Socket-head screw

- screw
- or mounting hole
- M5 8 set screw

- 7. Multi-point tip
- 8. M3 x 8 pan-head screw

Adjusting the Ion Collector Rod

The ion collector rod should be mounted so that the tip at the end of the rod is the optimum distance from the tip of the electrode for the application.

- If the tip at the end of the rod is too far away from the tip of the electrode, the ion collector will not collect any ions or improve the appearance of the cured coating.
- If the tip of the end of the rod is too close to the tip of the electrode, powder particles may not be charged efficiently and the powder transfer efficiency may be reduced.

Use this procedure to position the end of the ion collector rod.

- 1. Remove the rod and multi-tip point from the gun, then coat several parts. Note the current (µA) shown on the control unit display when coating the parts. Cure the coatings.
- 2. Install the rod and multi-point tip on the gun.
- 3. Loosen the set screw (4 or 6) and move the end of the rod far away from the front end of the gun.
- 4. Turn on the electrostatic voltage and spray provder with a part in front of the gun. Slide the rod forward until the current shown in the control unit display is 5 to 7 μ A higher than that displayed in step 1. Tighten the let stew.
- 5. Cure the coating on the test parts. Company the surface finish on these parts with the finish on the parts coated in step (before the on collector kit was installed).
- 6. If the desired improvement in the syrace finish has not been obtained, loosen the set screw and slide the rod forward approximately 1-in. Tighten the set screw.
- 7. Repeat steps 5 and 6 until be desired improvement in surface finish is obtained.



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



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

Automatic and manual control of electrostatic output, air-wash air flow, and pump air flow, are provided by the Nordson iControl system or the Encore LT automatic controllers. Gun triggering and positioning are provided by the iControl system, a Nordson axis controller, or a PLC supplied either by Nordson or the customer.

Refer to your controller manual for programming information and instructions.

Changing Flat Spray Nozzles



WARNING: Turn off the spray gun and ground the electrode before performing this procedure. Failure to observe this warning could result in a severe electrical shock.

- 1. See Figure 8. Unscrew the nozzle out (1) conterclockwise.
- 2. Pull the flat spray nozzle (2) of the electrode assembly (3).

NOTE: It is not necessary to remove the electrode assembly. If the electrode assembly comes out of the gun where ou pull the lozzle off, clean it with compressed air before re-installing it. Do not bend the electrode. The electrode holder (3A) screws into the assembly. Both the holder and the electrode are replaceable.

- 3. Install a new nozze on the electrode assembly, being careful not to bend the electrode. The nozze is beyed to the electrode assembly.
- 4. Install the come no over the nozzle and screw it onto the gun body clockwise until the force fithe nozzle nut bottoms against the shoulder of the gun body.

NOT. The tapered electrode holder of the electrode assembly has been designed for polinized deaning during color changes on systems using flat spray nozzles. This tapered electrode holder will not accept conical deflectors.

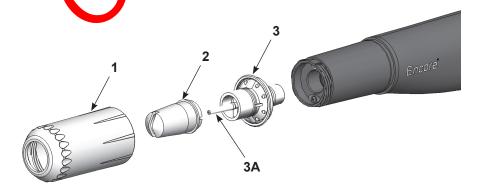


Figure 8 Flat Spray Nozzle Removal and Installation

Changing Optional Deflectors and Conical Nozzles



WARNING: Turn off the spray gun and ground the electrode before performing this procedure. Failure to observe this warning could result in a severe electrical shock.

NOTE: The electrode holder shipped with the gun will need to be changed in order to accept the optional conical deflectors. See the Options section beginning on page 39 for the conical nozzle kit required for this conversion.

- 1. See Figure 9. To change the deflector (4), gently pull it off the electrode assembly (3). If only changing the deflector, install the new one on the electrode assembly, being careful not to bend the electrode wire.
- 2. To change the entire nozzle, unscrew the nozzle nut (1) counterclockwise.
- Pull the conical nozzle (2) off the electrode assembly.

NOTE: It is not necessary to remove the electrode assembly (3) from the gun. If the electrode assembly comes out of the gun when you pull the nozzle off, clean it with compressed air before re-installing it. Do not bend the electrode. The electrode holder (3A) screws into the assembly. Both the holder and the electrode are replaceable.

- 4. Install a new conical nozzle on the electrode as imply. The nozzle is keyed to the electrode assembly.
- 5. Screw the nozzle nut onto the gurbody until e face of the nozzle nut bottoms against the shoulder of the gure ody
- sembly, being careful not to bend the 6. Install a new deflector on the electrode electrode.

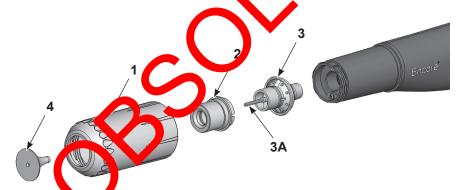


Figure 9 Changing Optional Deflectors and Conical Nozzles

Maintenance



WARNING: Turn off the electrostatic voltage and ground the gun electrode before performing the following tasks. Failure to observe this warning could result in a severe shock.

Daily Maintenance

NOTE: Depending on your application, you may not need to perform this procedure every day. If you regularly perform color changes with a powder feed center, the spray gun is purged internally each time a color change is performed. If this is the case, perform this procedure every 2-3 days.

See Figure 10.

- 1. Purge the spray guns, then shut them off.
- 2. Disconnect the powder feed hose (A) from the powder pump. Blow any remaining powder out of the powder feed hose and spray gun with an OSHA-approved, lowpressure air gun. Never blow air through the poweler feed hose from the spray gun into the powder pump.
- 3. Unscrew the nozzle nut (1) and remove the no
- 4. Pull the electrode assembly (3) out of the un.
- 5. Disconnect the powder feed hose from the guby unscrewing the hose retainer nut (27), pulling back on the nut and fulling the hose connector (26) off the powder
- 6. Push the powder tube (5) toward the ont of the gun, then pull the seal (4) and tube out of the front of the gun



Figure 10 Maintenance - Bar-Mount Gun Shown without Pivot Mount

- 1. Nozzle nut
- 2. Nozzle
- 3. Electrode assembly
- 4. Seal
- 5. Powder Tube
- 26. Hose connector

- 27. Retainer nut
- A. Powder feed tubing

Daily Maintenance (contd)

- 7. Clean all parts removed with a low-pressure blow gun. Wipe the parts with a clean, dry cloth.
- 8. Carefully remove any fused powder with a wooden or plastic dowel or similar tool. Do not use tools that will scratch the plastic. Powder will build up and impact-fuse on scratches.

NOTE: If necessary, use a cloth dampened with isopropyl or ethyl alcohol to clean the parts. Remove O-rings and seals before cleaning the parts with alcohol. Do not immerse the spray gun in alcohol. Do not use any other solvents.

- 9. Inspect the powder tube, seal, electrode assembly, and nozzle for wear. Replace worn or damaged parts.
- 10. Install the seal on the end of the powder tube if removed.
- 11. Install the powder tube into the gun until the seal bottoms out in the front of the gun.
- 12. Install the electrode assembly in the gun, so that the end of the electrode assembly slides into the seal on the end of the powder tule.
- 13. Install the nozzle on the electrode assembly and ecure it with the nozzle nut. If used, install the deflector onto the electrode agembly



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. Refer to the iControl Hardware Manual for control-related problems. If you cannot solve a problem with the information provided in these manuals, contact your local Nordson representative for help.

NOTE: iFlow® modules are used in the iControl controller to control pump air flow. Refer to your iControl manuals for problems related to iFlow modules.

General Troubleshooting Chart

Problem	Possible Cause	Corrective Action
Uneven pattern, unsteady or inadequate powder flow	Blockage in spray gun, powder feed hose, or pump	Purge the spray gun. Remove the nozzle and electrode assembly and clean the
		Disconnect the powder feet hose from the spray gun and blow out the powder tube with an air gun.
		3. Disconnect the feed cose from the pump and gun and blow out the feed hose. Replace the feed hose if it is clogged with powder.
		4. Disassemble and clean the pump.
	Nozzle, deflector, or electrode assembly worn, affecting pattern	Remote, coord, and inspect the nozzle, deflector, and electrode assembly. Replace worn parts as necessary. Lexcoosive wear or impact fusion is a problem, reduce the flow rate and atomizing air flow.
	Damp powd	check the powder supply, air filters, and dryer. Replace the powder supply if contaminated.
	Low pump a relow/ pressure	Adjust pump air flow/pressure.
	less on our fluid impations of	Increase the fluidizing air pressure.
	Improper fluidization of power in Leed hopper	If the problem persists, remove the powder from the hopper. Clean or replace the fluidizing plate if contaminated.
	iFlow module out of calibration	Perform the re-zero procedure in the iControl hardware manual.
		Continued

Problem	Possible Cause	Corrective Action
2. Voids in powder pattern	Worn nozzle or deflector	Remove and inspect the nozzle or deflector. Replace worn parts.
	Plugged electrode assembly or powder path	Remove the electrode assembly and clean it. Remove powder path if necessary and clean it.
	Electrode air-wash flow too high	Air-wash flow is controlled by a fixed orifice. Refer to your controller manual for more troubleshooting information.
	Low electrostatic voltage	Increase the electrostatic voltage.
Loss of wrap, poor transfer efficiency	Poor electrode connection	Remove the nozzle and electrode assembly. Clean the electrode and check for carbon tracking or damage. Check the electrode resistance as shown on page 21. If the electrode assembly is good, remove the gun power supply and check its resistance as shown on page 22.
	Poorly grounded parts	Check the conveyor chain, rollers, and part hangers for powder buildup. The resistance between the parts and ground must be 1 megohm or less. For best results, 500 ohms or less is recommended.
4. No kV output from the spray gun	Damaged gun cable	Perform the Cable Continuity (necks on page 22. If an open or short is bound, applace the cable.
(display shows 0 kV when gun triggered), but powder is spraying	Spray gun power supply shorted	Perform the P wer Supply Resistance Test on page 21.
5. No kV output from the spray gun	Spray gun power supply open	Perform the Pow Supply Resistance Test on page 21.
(interface shows kV output) but powder is spraying	Damaged gun cable	If an op n or short is found, replace the cable.
6. Powder build up on the electrode tip	Insufficient electro le air wash flow	vash flow is controlled by a fixed orifice. Check the airwash tubing, and check for flow at the output fitting when the un is triggered on. Refer to your controller manual for more troubleshooting information.
		Continued

Problem	Possible Cause	Corrective Action
7. Low powder flow or powder flow surging	Low supply air pressure	iControl console air supply pressure must be greater than 5.86 bar (85 psi). Encore LT automatic controllers require 4.0–7.6 bar (58–110 psi).
	iFlow module air pressure regulator set too low	Adjust the iControl regulator to 5.86 bar (85 psi). Refer to the iFlow Air Flow Verification Kit instruction sheet.
	Supply air filter plugged or filter bowl full – water contamination of flow controller	Remove bowl and drain water/dirt. Replace filter element if necessary. Clean system, replace components if necessary.
	iFlow module flow valve or Encore LT flow valve plugged	Refer to your controller manual.
	Air tubing kinked or plugged	Check flow and atomizing air tubing for kinks.
	Pump throat worn	Replace pump throat.
	Pump not assembled correctly	Check and re-assemble pure.
	Pick-up tube blocked	Check for debris (VBF units) blocking pick-up tube.
	Fluidizing air too high	If fluidizing air set too high the ratio of powder to air will be be too low.
	Fluidizing air too low	If fluidizing air set to low the pump will not operate at peak efficiency.
	Powder hose plugged	Blow our powder hose with compressed air.
	Powder hose kinked	Checked folia kinked powder hose.
	Powder hose too long	Shorter hose.
	Gun powder path plugged	npact fusion or debris. Clean as necessary with compressed air.
	Flow and atomsing air tubing reversed	Check flow and atomizing air tubing routing and correct if incorrect.
8. No KV when gun is triggered ON, powder flow OK	KV set to zero	Change KV to a positive value.
	Checathe darm screen for messages.	Refer to your controller manual for troubleshooting procedures.
9. No powder flow when gun is triggered ON, kV OK	Total air set to zero	Change the total flow to a positive value.
	Input air turned OFF	Check the iControl console air supply.
10. Gun flow % does not increment, always 0	Total air set to zero	If the total air is set to zero the flow percent cannot be adjusted. Change the total flow to a positive value.

Power Supply Resistance Test

Use a megohm meter to check the resistance of the power supply, from the J2-3 feedback terminal at the connector to the contact pin inside the front end. The resistance should be between 225-335 megohms. If the reading is infinite, switch the meter probes. If the resistance falls outside this range, replace the power supply.

NOTE: There are multiple variables that can affect the Meg-Ohm readings of your meter (temperature and measurement voltage). If the Meg-Ohm meter output voltage differs from the 500 VDC setting, it will have a direct impact on the measurement accuracy. Measurements should also be taken at room temperature 22°C or 72°F. Allow time for the multiplier to cool to room temperature for repeatable results.



Figure 11 Power Supply Resistance Test (shown or a regative power supply)

1098185-21

Electrode Assembly Resistance Test

Use a meg ohm meter to measure the resistance of the electrode assembly from the contact ring on the back to the antenna wire in the front. The resistance should be 19–23 meg ohms. If the resistance is out of this range replace the electrode assembly.

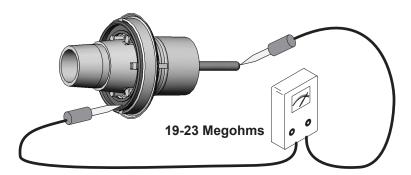


Figure 12 Electrode Assembly Resistance Test

Cable Continuity Tests

Use a standard ohmmeter to check the gun cabes and harness for continuity.

Gun Receptacle Harness

This harness is used on both the bar-mount and tube-mount guns to connect the power supply (voltage multiplier) to the extension cable (tube-mount gun) or gun cable.

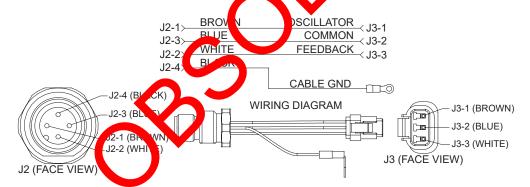


Figure 13 Gun Receptacle Harness

Gun Extension Cable

This cable is used in the tube-mount gun only, between the rear body assembly and the end cap.

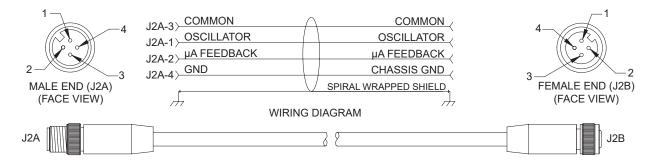


Figure 14 Gun Extension Cable

Gun Cable

lengths. It is used for both This cable is available in 8, 12, and 16-meter (26, bar-mount and tube-mount guns.

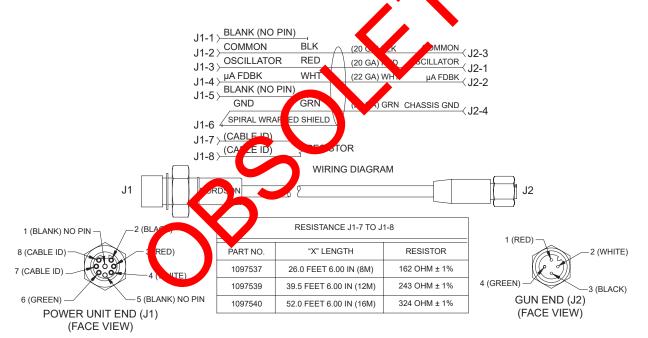


Figure 15 Gun Cable

Repair



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

Powder Wear Parts Replacement

Use this procedure to replace the powder wear parts on both the tube-mount and barmount guns. Replace worn or damaged parts as required.

- 1. See Figure 16. Unscrew the retainer nut (27) and pull the hose connector (26) off the powder tube.
- 2. Unscrew the nozzle nut (1) and remove the nozzle (2) and electrode assembly (3). Inspect the nozzle and electrode assembly and replace worn or damaged parts.
- 3. Push on the rear end of the powder tube (5) and pull it out of the front of the gun. Inspect the seal (4) and replace it if it is damager or deformed.
- 4. Install the seal on the powder tube, then install the owder tube into the spray gun body and push it through until the seal sents in the from of the body.
- 5. Install the electrode assembly and no zle and secure them with the nozzle nut.
- 6. Install the hose connector onto the end of the owder tube and tighten the retainer nut to secure the hose connector.



Figure 16 Powder Wear Parts Replacement

- 1. Nozzle nut
- 2. Nozzle
- Electrode assembly
- 4. Seal
- 5. Powder tube

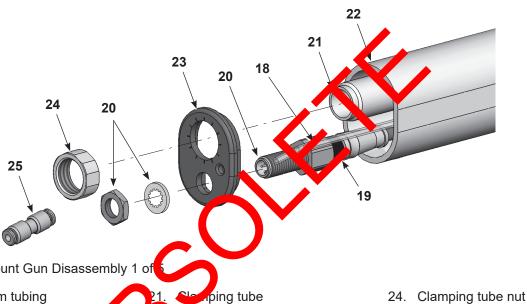
- 26. Hose connector
- 27. Retainer nut

1098185-21

Tube-Mount Gun Repair

Tube-Mount Gun Disassembly

- 1. Remove the nozzle, electrode assembly, hose connector, and powder tube as described in Powder Wear Parts Replacement on page 24.
- 2. See Figure 17. Disconnect the union (25) from the clear 4-mm air tubing (18).
- 3. Disconnect the gun cable (not shown) from the cable receptacle (20).
- 4. Unscrew the clamping tube nut (24) from the clamping tube (21).
- 5. Remove the nut and lock washer from the cable receptacle (20). Save the nut and lock washer for reuse.
- 6. Pull the end cap (23) off the end of the gun.



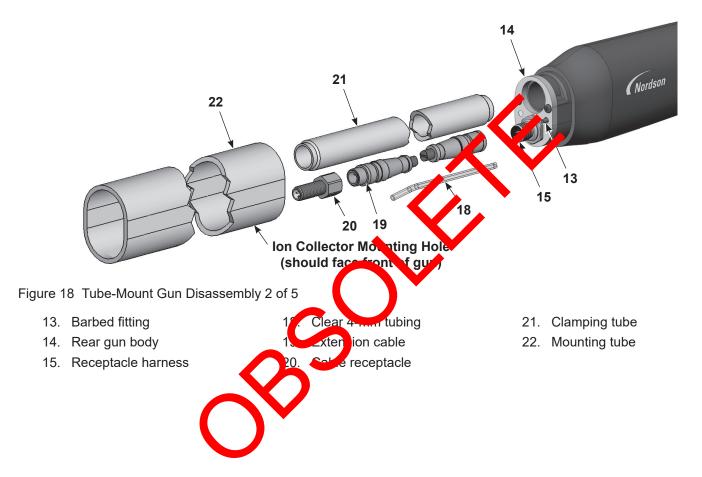
- Figure 17 Tube-Mount Gun Disassembly 1 of
 - 18. Clear 4-mm tubing
 - 19. Extension cable
 - 20. Cable receptacle

- Mounting tube
 - End cap

- 25. Tubing union

NOTE: If your spray gun is equipped with an optional ion collector, you must remove it from the gun before you can remove the mounting tube.

- 7. See Figure 18. Pull the mounting tube (22) off the rear body assembly (14) and over the clamping tube (21).
- 8. Unscrew the clamping tube from the rear body assembly.
- 9. Disconnect the extension cable (19) from the receptacle harness (15).
- 10. Disconnect the clear 4-mm air tubing (18) from the barbed fitting (13).
- 11. If you are replacing the extension cable, remove the cable receptacle (20). If not, you can leave them connected.



- 12. See Figure 19. Remove the two socket-head screws (17) and lock washers (17A) from the rear gun body (14).
- 13. Carefully pull the rear gun body far enough off the bulkhead (8) to disconnect the power supply harness (11) from the receptacle harness (15), and the filter assembly tubing (6A) from the barbed fitting inside the rear body.

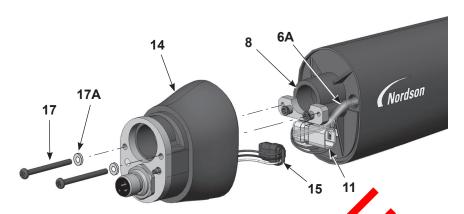


Figure 19 Tube-Mount Gun Disassembly 3 of 5

- 6A. Filter assembly tubing
 - 8. Bulkhead

- 11. Power supply harness
- 14. Rear gun body

- Receptacle harness
- Socket-head screws
- 17A. Lock washers
- 14. See Figure 20. With a 1/8-in. hex sy, resove the two Allen nuts (10) and screw plate (9) from the bulkhead (8) Then remote the bulkhead from the gun body (6), feeding the power supply harness though the bulkhead.
- 15. Slide the power spply (1) out the gun body.
- 16. The clear 4-mm at tubing A) in the gun body is part of the air filter assembly that provides the electrod wash. To replace the air filter assembly, pull it out of the front of the guy soo
- 17. The gas et (7) is stached to the bulkhead with a pressure-sensitive adhesive. If the raanaged, replace it with a new one.

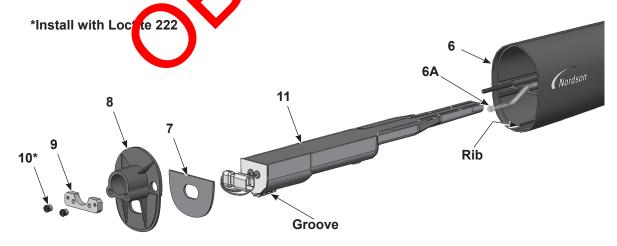


Figure 20 Tube-Mount Gun Disassembly 4 of 5

- 6. Gun body
- 6A. Filter assembly tubing
- 7. Gasket

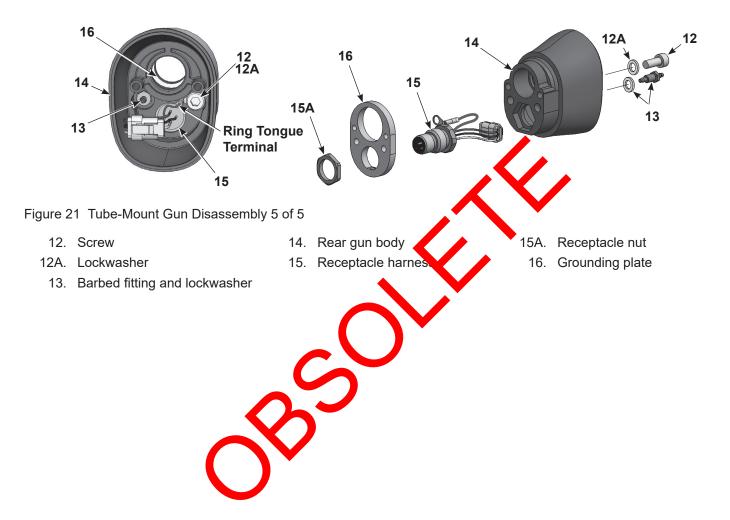
- 8. Bulkhead
- 9. Screw plate

- 10. Allen nuts
- 11. Power supply

1098185-21

- 18. See Figure 21. To disassemble the rear body assembly, remove the screw (12) and barbed fitting (13) from inside the rear gun body (14). A 3-mm hex key and 1/4-in. deep-well socket are required.
- 19. Remove the nut (15A) from the receptacle, pull the grounding plate (16) off the rear gun body, and feed the receptacle harness through the body.

NOTE: When reassembling, secure the ring-tongue ground terminal to the rear gun body with the screw (12) and lock washer (12A) and torque the screw to 2.5 N·m (22 inch-lbs).



Tube-Mount Gun Assembly

NOTE: If you have a kit that combines the power supply and body assembly, skip step 1 and go to step 2.

- 1. See Figure 20. Install the power supply (11) into the gun body (6), making sure the gun body rib fits into the groove on the power supply. Seat the power supply firmly into the gun body.
- 2. Feed the power supply harness through the bulkhead (8), then install the bulkhead and screw plate (9) over the gun body studs. Apply Loctite 222 thread-locking adhesive to the Allen nuts (10) and thread them onto the studs. Torque the nuts to 0.45 N·m (64 inch-ounces) with a 1/8-in. hex key.
- 3. See Figure 19. Connect the receptacle harness (15) to the power supply harness (11). Tuck the harness connectors (11, 15) into the rear body assembly in the positions shown.
- 4. Connect the filter assembly tubing (6A) to the barbed fitting on the inside of the rear body. Feed any extra clear air tubing into the gun body, then install the rear body onto the bulkhead with the screws (17) and lock was lers (17A).
- 5. See Figure 18. Screw the clamping tube (21) to fe rear body (14).
- 6. Connect the extension cable (19) to the eceptace by ness in the rear body assembly.
- Connect the clear 4-mm tubing (18 to the D the fitting on the rear body assembly.
- 8. Orient the mounting tube (22) with the on collector hole facing towards the front of the gun.

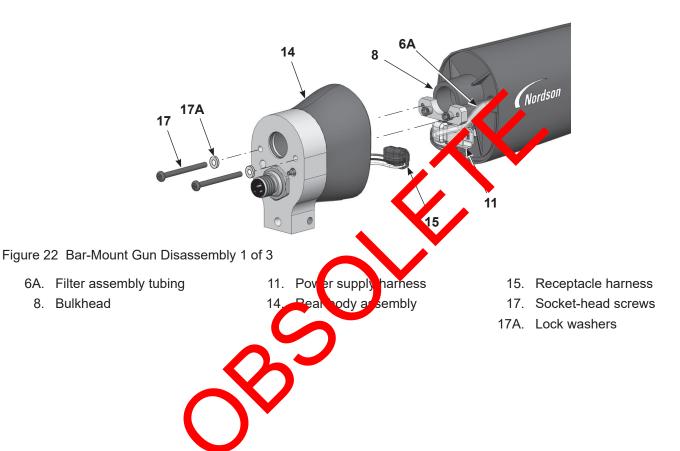
NOTE: If the ion collector was previous installed towards the far rear of the assembly, position the mounting hole towards the front of the gun. Proper orientation must be implemented to allow to . grounding plate. acces

- 9. See Figure 17. Co nect the extension cable (19) to the receptacle (20) in the end cap (23).
- 10. Feed the extension cable and tubing into the end of the mounting tube, e the mou ling tube over the clamping tube and rear body assembly.
- cap on the mounting tube, feeding the clamping tube (21) and clear ubin (18) through the end cap.
- 12. Sec re the cable receptacle (20) to the end cap with the lock washer and nut.
- ad the clamping tube nut (24) onto the clamping tube and tighten securely.
- 14. Install the union (25) on the clear 4-mm tubing.
- 15. Install the powder tube, electrode assembly, nozzle, nozzle nut, and hose connector as described in *Powder Wear Parts Replacement* on page 24.

Bar-Mount Gun Repair

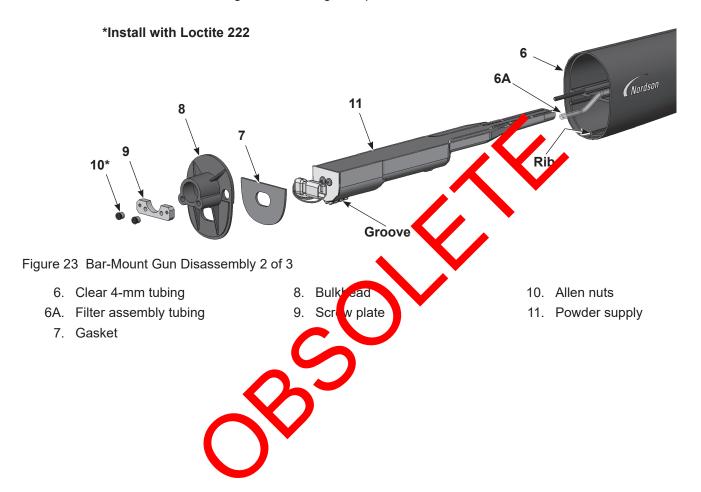
Bar-Mount Gun Disassembly

- 1. Remove the nozzle, electrode assembly, hose connector, and powder tube as described in Powder Wear Parts Replacement on page 24.
- 2. Remove the two socket-head screws (17) and lock washers (17A) from the rear body assembly (14).
- 3. Carefully pull the rear body assembly far enough off the bulkhead (8) to disconnect the power supply harness (11) from the receptacle harness (15); and the filter assembly tubing (10) from the barbed fitting inside the rear body assembly.



1098185-21

- 4. See Figure 23. With a 1/8-in. hex key, remove the two Allen nuts (10) and screw plate (9) from the bulkhead (8). Then remove the bulkhead from the gun body (6), feeding the power supply harness through the bulkhead.
- 5. Slide the power supply (11) out of the gun body.
- 6. The tubing (6A) in the gun body is part of the air filter assembly that provides the electrode air-wash. To replace the air filter assembly, pull it out of the front of the gun body.
- 7. The gasket (7) is attached to the bulkhead with pressure sensitive adhesive. If the gasket is damaged, replace it with a new one.



- 8. See Figure 24. To disassemble in the rear body assembly, remove the screw (12), lock washer (12A), and barbed fitting and lock washer (13) from inside the rear body (14). A 3-mm hex key and 1/4-in. deep-well socket are required.
- 9. Remove the nut (15A) from the receptacle (15), pull the adapter off the rear gun body, and feed the receptacle harness through the body.
- 10. Inspect the quad ring (18) in the adapter (16) and replace it if damaged.

NOTE: When reassembling, secure the ring-tongue ground terminal to the rear gun body with the screw (12) and torque it to 2.5 N·m (22 inch-lb).



Bar-Mount Gun Assembly

NOTE: If you have a kit that combines the power supply and body assembly, skip step 1 and go to step 2.

- 1. See Figure 23. Install the power supply (11) into the gun body (6), making sure the gun body rib fits into the groove on the power supply. Seat the power supply firmly into the gun body.
- 2. Feed the power supply harness through the bulkhead, then install the bulkhead (8) and screw plate (9) over the gun body studs. Apply Loctite 222 to the Allen nuts (10), then install the nuts on the studs and torque them to 0.45 N•m (64 inch-ounces) with a 1/8-in. hex key.
- 3. See Figure 22. Connect the receptacle harness (15) to the power supply harness (11). Tuck the harness connectors (11, 15) into the rear body assembly in the positions shown.
- 4. Connect the clear filter tubing (6A) to the barbed fitting on the inside of the rear body assembly (14). Feed any extra clear air tubing into the gun body, then install the rear body assembly onto the bulkhead with the screens (17) and lock washers (17A).
- 5. Install the powder tube, electrode assembly, 1022, nozzle nut, and hose connector as described in Powder Wear Parts Replacement on page 24.



Parts

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

Tube-Mount Gun Parts

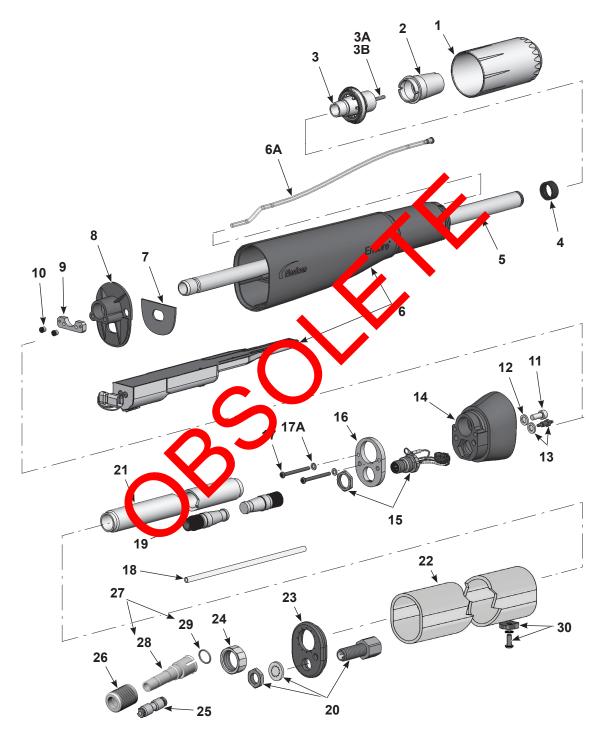


Figure 25 Tube-Mount Gun Parts

Standard 5-Foot Tube-Mount Gun Parts List

See Figure 25.

Item	Part	Description	Quantity	Note
-	1613693	GUN, auto, tube-mount, Encore, 5 ft, two-gun pack	1	E
-	1613694	GUN, auto, tube-mount, Encore, 5 ft, one-gun pack	1	Е
-	1614273	GUN, auto, tube-mount, Encore, 5 ft PVC, two-gun pack	1	Е
-	1614274	GUN, auto, tube-mount, Encore, 5 ft PVC, one-gun pack	1	Е
1	1081638	NUT, nozzle, handgun, Encore	1	
2	1081658	NOZZLE, flat spray, 4 mm, Encore	1	Α
3	1604824	ELECTRODE ASSEMBLY, Encore, flat spray	1	D
3A	1106078	ELECTRODE, spring contact, packaged	1	
3B	1605863	HOLDER, electrode, M3, flat spray, Encore	1	D
4	1097527	SEAL, tube, powder	1	
5	1602673	TUBE, powder, tube mount, auto, Encore, 5 ft	1	Е
6	1608279	KIT, negative power supply/auto body, Encore	1	F
6A	1088558	FILTER ASSEMBLY, handgun	1	
7	1088502	GASKET, multiplier cover, handgun, Encore	1	
8	1097520	BULKHEAD, body, front, auto, Encore	1	
9	1101381	PLATE, screw	1	
10	1097522	NUT, Allen, 4-40, stainless steel	2	
11	815666	SCREW, socket, M5 x 0.8 x 12, zinc	1	
12	983127	WASHER, lock, internal, M5, zip	1	
13	1081616	• FITTING, bulkhead, barbed, call, 10-32 x 4 mm tubing	1	
14	1097518	BODY, gun, rear, auto, Encore	1	
15	1097514	RECEPTACLE, gun h rness	1	
16	1097513	PLATE, grounding	1	
17	1605696	SCREW, sock thea M3 x 55 mm	2	
17A	983520	WASHER, lock, ernal M3, steel, zinc	2	
18	900617	TUBING, polyunathand, 4 mm OD, clear (6 ft)	AR	В
19	1103426	CABLE extension, auto, Encore, 1196 mm	1	
20	1097533	RECEPTA LE M12, male/female, 4P	1	
21	1602674	TUBE, clamp	1	
22	1099828	TUBE, mount, auto, Encore, 5 ft	1	E
22	1602611	TUBE, mount, auto, Encore, 5 ft, PVC	1	Е
23	1097534	CAP, end, tube mount	1	
24	1097535	NUT, clamp, tube mount	1	
25	1003964	UNION, straight, 4 mm tube	1	
26	1604821	RETAINER, connector, hose, univ, auto, Encore	1	
27	1604831	CONNECTOR ASSY, hose, univ, auto, Encore	1	С
28		CONNECTOR, hose, univ, auto, Encore	1	
29	1036432	O-RING, silicone, 13 mm ID x 2 mm W	1	
30	1609314	PLUG, tube mount, kit, auto, Encore	1	
			Con	tinued

NOTE: A. Refer to the Options section for a complete list of available flat spray nozzles, conical nozzles and deflectors.

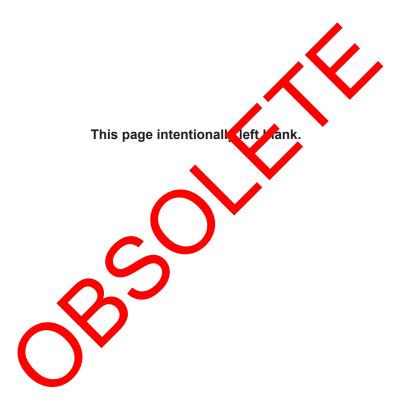
- B. Bulk item, order in increments of one foot.
- C. For use with 11 mm and 1/2 in hose.
- D. For flat spray nozzle use only. Refer to the *Options* section for assemblies/parts for use with conical nozzles and deflectors.
- E. The type of material used for the tube mount determines the type of spray gun.
- F. Application Specific: Order part number 1609053 if a positive power supply is needed. The positive power supply is sold separately from the gun body.

AR: As Required NS: Not Shown



Note

Α



Bar-Mount Gun Parts

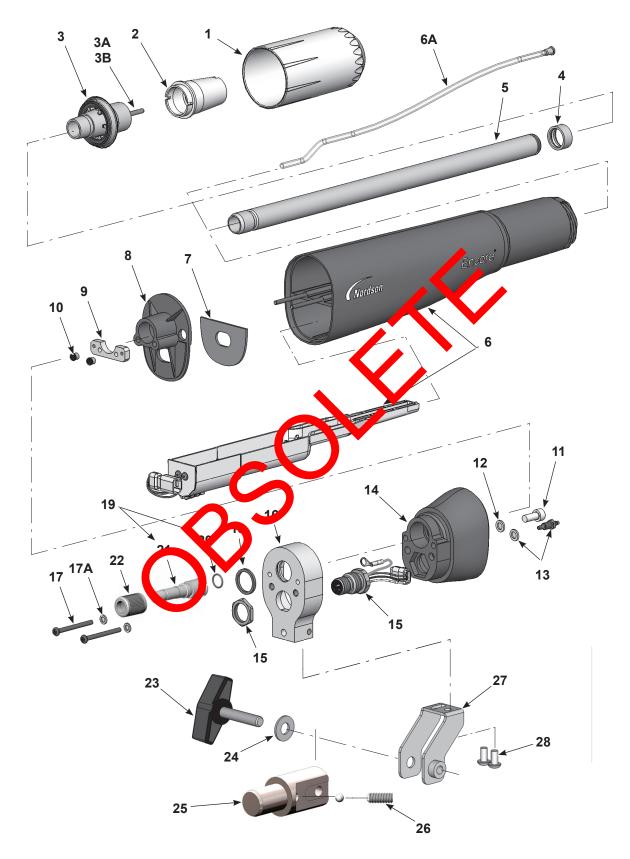


Figure 26 Bar-Mount Gun Parts

Bar-Mount Gun Parts List

See Figure 26.

NOTE: Cables for the bar-mount gun are optional. Refer to Cables, on page 41 for available cables.

Item	Part	Description	Quantity	Note
-	1097489	GUN, auto, bar mount, Encore	1	
1	1081638	NUT, nozzle, handgun, Encore	1	
2	1081658	NOZZLE, flat spray, 4 mm, Encore	1	Α
3	1604824	ELECTRODE ASSEMBLY, Encore, flat spray	1	С
3A	1106078	ELECTRODE, spring contact	1	
3B	1605863	HOLDER, electrode, M3, flat spray, Encore	1	С
4	1097527	SEAL, tube, powder	1	
5	1097524	TUBE, powder, bar mount, auto, Encore	1	
6	1608279	KIT, neg power supply/auto body, Encore	1	D
6A	1088558	FILTER ASSEMBLY, handgun	1	
7	1088502	GASKET, multiplier cover, handgun, Encore	1	
8	1097520	BULKHEAD, body, front, auto, Encore	1	
9	1101381	PLATE, screw	1	
10	1097522	NUT, Allen, 4-40, stainless steel	2	
11	815666	SCREW, socket, M5 x 0.8 x 12, zinc	1	
12	983127	WASHER, lock, internal, M5, zinc	1	
13	1081616	FITTING, bulkhead, barbed, dual 32 4 mm tubing	1	
14	1097518	BODY, gun, rear, auto, Encore	1	
15	1097514	RECEPTACLE, gun harpess	1	
16	1097512	ADAPTER, mount, ba	1	
17	1605696	SCREW, socket head, wo x 35 hm	1	
17A	983520	WASHER, lock interval. Me, steel, zinc	2	
18	1097511	• QUAD RING, Vi. 7, 0.67 in. ID x 0.070 in.	1	
19	1604831	CONNECTOR: SS Yose, univ, auto, Encore	1	В
20	1036432	O-R VG, silicone, 13 mm ID x 2 mm W	1	
21		CONNECTOR, hose, univ, auto, Encore	1	
22	1604821	RETAINER, connector, hose, univ, auto, Encore	1	
23	1102293	KNOB, T-handle	1	
24	1102294	WASHER, flat, 0.34 x 0.74 x 0.06 in., nylon	1	
25	1097546	ADAPTER, tube, mount, bar	1	
26	345385	SCREW, set, flat, M8 x 20, black	1	
27	1097542	BRACKET, mount, bar	1	
28	982503	SCREW, button, socket, M5 x 10	2	

Continued...

Item	Part	Description	Quantity	Note
NS	247006	• CLAMP, hose, 0.637-0.795 OD	1	
NS	939247	CLAMP, hose, Snap-it	1	
NS	1081656	NOZZLE, flat spray, 2.5 mm, Encore	1	Α

NOTE: A. Refer to the Options section for a complete list of available flat spray nozzles, conical nozzles and deflectors.

- B. For use with 11 mm and 1/2 in hose.
- C. For flat spray nozzle use only. Refer to the *Options* section for assemblies and parts for use with conical nozzles and deflectors.
- D. Application Specific: Order part number 1609053 if a positive power supply is needed. The positive power supply is sold separately from the gun body.



1098185-21

Options

Six-Foot Tube Mount Gun

See Figure 25 for the parts illustration, and the standard 5-ft tube mount gun parts list for all other parts.

Item	Part	Description	Quantity	Note
-	1097500	GUN, auto, tube mount, Encore, 6 ft	1	
5	1602675	TUBE, powder, tube mount, auto, Encore, 6 ft	1	
19	1097536	CABLE, extension, auto, Encore, 1496 mm	1	
21	1602676	TUBE, clamp, 6 ft	1	
22	1097532	TUBE, mount, auto, Encore, 6 ft	1	

Hose Hanger

See Figure 27. The hose hanger assembles e mount gun to support the powder hose, air tubing, and gun cable.



Figure 27 Optional Hose Hanger

Part		Descri	tion	Note
1612462	HANGER, hose, automatic gun			

Cables

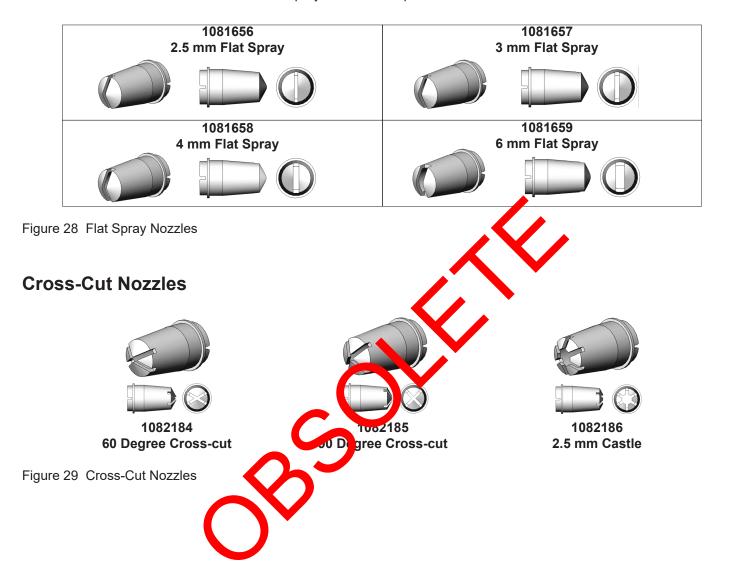
nnect the spray gun to the gun controller (Encore iControl integrated

Part		Description				
1097537	CABLE, auto, End	core, o m	eter (26.25 ft)			
1097539	CABLE, auto, Encore, 12 meter (39.4 ft)					
1097540	CABLE, auto, Encore, 16 meter (52.5 ft)					
1601344	CABLE, extension	n, Encore	e, 4 m (13.1 ft)			

Flat Spray Nozzles

See Figure 28. The 2.5 and 4-mm flat spray nozzles are shipped with the spray gun. Flat spray nozzles are capable of 90 incremental adjustments.

All other flat spray nozzles are optional.



1098185-21

45-Degree Corner-Spray Nozzle

See Figure 30.

Spray Pattern Wide fan pattern perpendicular to the spray gun axis					
Slot Type Angled, cross slot					
Application	Flanges and recesses				

Part	Description	Note
1102872	NOZZLE, corner spray, Encore	



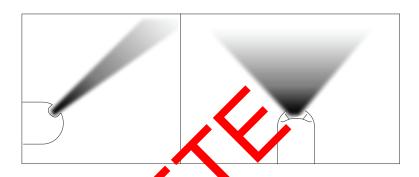


Figure 30 45-Degree Corner Spray Nozzle

45-Degree In-Line Flat-Spray Nozzle

See Figure 31.

Spray Pattern	Narrow fan pattern in-line	vith spra	gun axis
Slot Type	Three angled slots in-line	ith spra	gun axis
Application	Top and bottom coating; two	oicany no	in/out part positioning

Part				Description	Note
1102871	NOZZLE, 45 degree, fla	spr	y, E	core	



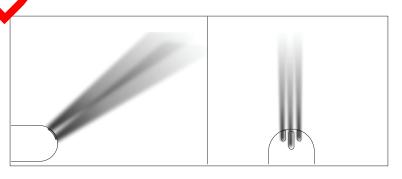
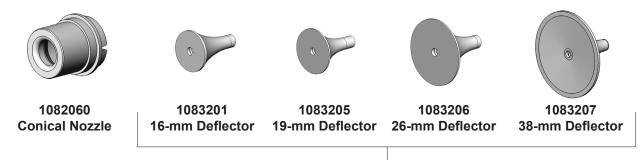


Figure 31 45-Degree Flat Spray Nozzle

Conical Nozzle, Deflectors and Electrode Assembly Parts

See Figure 32 and Figure 33. The conical nozzle and deflectors must be used with the conical electrode holder. These parts are optional and must be ordered separately.

Conical Nozzle and Deflectors



All deflectors include a 1098306 O-ring, Viton, 3 mm x 1.1 mm wide

Figure 32 Conical Nozzle and Deflectors



Figure 33 Conical Nozzle Kit

Item	Part		escripti	n *	Quantity	Note
_	1604828	KIT, conical nozzle, Encor			1	
1	1083206	DEFLECTOR, 26 mm			1	
2	1082060	NOZZLE, conical			1	
3	1605861	ELECTRODE OLD Conic	al		1	

Conical Electrode Assembly

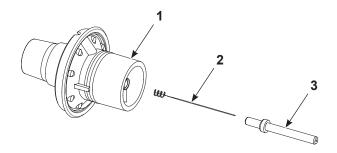


Figure 34 Conical Electrode Assembly

Item	Part	Description	Quantity	Note
_	1106076	ELECTRODE ASSEMBLY, conical, Encore	1	
1		ELECTRODE SUPPORT	1	
2	1106078	• ELECTRODE	1	
3	1605861	ELECTRODE HOLDER, Conical	1	

XD Electrode Support

port povides 2 to 3 times longer wear life than The XD (extended duty) Electrode that of the standard duty electrode sup



Figure 35 Conical Spray and F Spray Electrode Supports

Encore Angled Spray Extensions

See Figure 36. Encore angled spray extensions are available in 45, 60, and 90 degree versions. They are designed to be used on Encore automatic powder spray guns, allowing powder to be sprayed at varying angles to the gun mounting orientation.

All angled spray extensions are optional. See instruction sheet P/N 1605615 for parts, service kits, and more information.

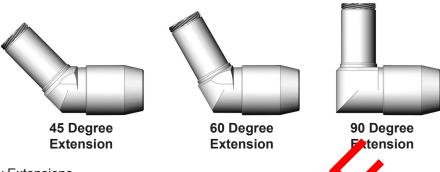


Figure 36 Angled Spray Extensions

Part	Description	Note
1605703	EXTENSION, spray, 45 degree, Encore	
1605614	EXTENSION, spray, 60 degree, Encore	
1604084	EXTENSION, spray, 90 degree, Encore	

Tube-Mount Gun Mounting Assemblies

All mounting assemblies are optional.

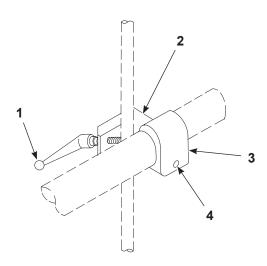


Figure 37 Gun Bar Mounts for Tube-Mount Guns

Standard Mount Assembly

Item	Part	Description	Quantity	Note
_	1010717	MOUNT, assembly, Sure Coat automatic gun	1	
1	248957	HANDLE, adjustment, 3/8-16 x 1.77 in.	1	
2		MOUNT, clamp, automatic gu	1	
3		MOUNT, sleeve, automatic gu	1	
4	981561	• SCREW, socket, 3/8–1/ x 1.00 lh.,	3	

un Assembly

Item	Part	Description	Quantity	Note
	341756	MOUNT, the holder, assembly	1	
1	248957	HANDLE, adjustment, 3/8-16 x 1.77 in.	1	
2	983061	WASHER, flat, 0.406 x 0.812 x 0.065 in., zinc	1	
3	249074	HANDLE, adjustment, 3/8-16 x 2.75 in.	1	
4		MOUNT, clamp, automatic gun	1	
5		MOUNT, sleeve, automatic gun	1	
6	981561	• SCREW, socket, 3/8-16 x 1.00 in., zinc	3	

Extrusion Mount Assembly

Use this assembly to mount a tube-mount gun to a rigid bracket mounted on a T-slot extrusion.

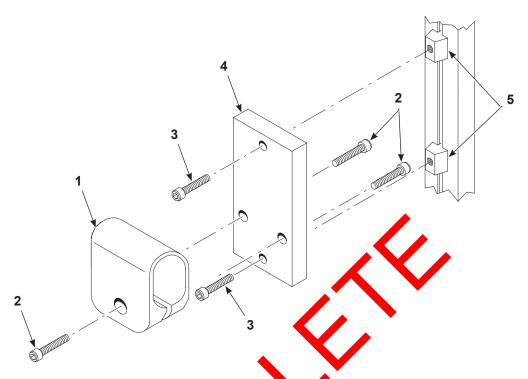


Figure 38 Extrusion Gun Mount Assembly for Tube-Mount Assembly for Tube-Mount

Item	Part	escripti	Quantity	Note
_	1016515	PLATE, adapter, support, can bar a serroly	1	
1	1013964	MOUNT, sleeve, with creve, are Coat automatic	1	
2	981561	• • SCREW, sock ., 3/8-16 x 1/30 in., zinc	3	
3	981528	SCREW, sock Max 3, zinc	2	
4	1016458	PLATE, attachment surport, gun bar	1	
5	1016533	NUT, Tolot, stee Mo	2	

Gun Bar for Bar-Mount Guns

The gun bar is optional. It clamps onto 1-in. diameter mounting bars.

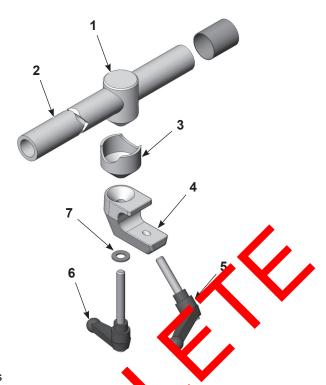


Figure 39 Gun Bar for Bar-Mount Guns

Item	Part	Pascrip ion	Quantity	Note
-	341727	GUN BAR, aluminum, 1.25-in. C x 4 ft., ssembly	1	
1	327732	BODY, locking, 1.25 in marriete.	1	
2	327704	ROD, adjusting, alumi um 1.23 in. OD x 4 ft	1	
3	327733	SLEEVE, locking	1	
4	248669	BODY, adjust is our ling	1	
5	248957	• HANDLE 13 st, 48-1 x 1.77 in.	1	
6	249074	• HANDI £, adjust 3/8-16 x 2.75 in.	1	
7	983061	WASHER, flat, 0,406 x 0.812 x 0.065 in., zinc	1	

Ion Collector Kit

The ion collector kit is optional. It can be used on either Encore automatic gun model.

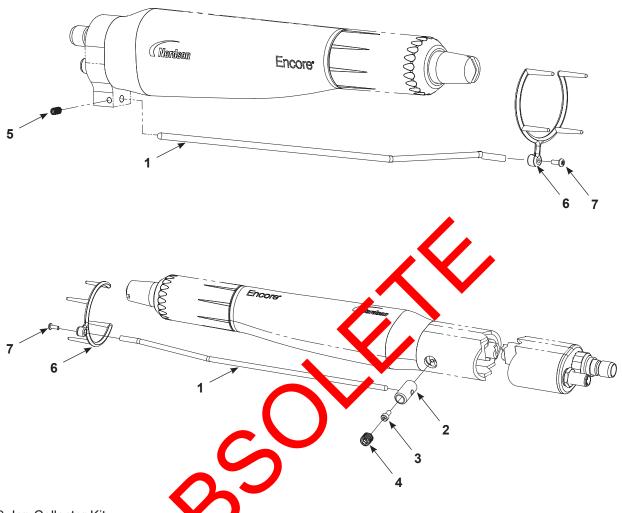


Figure 40 Ion Collector Kit

Item	Part	Description	Quantity	Note
-	1097505	KIT, collect ion. Incore	1	
1		ROD, ion collector, offset	1	
2	1097547	POST, collector, ion	1	
3	105800	SCREW, socket head, M4 x 0.7 x 8 mm	1	
4	1097696	SCREW, set, nylon tip, M10 x 10, black	1	
5	1097543	SCREW, set, nylon tip, M5 x 8, black	1	
6		TIP, ion collector, multi-point	1	
7	982017	SCREW, pan, rec, M3 x 8, zinc	1	

EU DECLARATION of CONFORMITY

Product: Encore Automatic Powder Spray System

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

Models: Encore Automatic Applicator and Encore iControl 2

Description: The automatic electrostatic powder spray system includes applicator, control cable and associated controllers. These controls are available in a 4 - 16 applicator control cabinets as a main console with a pc and display or an auxiliary console without the pc or display. There is an optional Pedestal unit for remote mounting of the display.

Applicable Directives:

2006/42/EC - Machinery Directive 2014/30/EU - EMC Directive 2014/34/EU - ATEX Directive

Standards Used for Compliance:

EN/ISO12100 (2010) EN60204-1 (2018) EN61000-6-3 (2007) EN60079-0 (2013) EN50050-2 (2013) EN61000-6-2 (2005) EN60079-31 (2014) EN50177 (2009) EN55011 (2009)

Type of Protection:

- Ambient Temperature: +15°C to +40°C
- Ex II 2 D / 2mJ = Auto Applicators
- Ex II (2) D = Main Console and Auxiliary Console Consolers

- Ex II (2) 3 D = Optional Pedestal

ATEX Product Certificates:

- FM11ATEX0056X (Applicators) (Dublin and
- FM13ATEX0010X (Controllers) (Dublin, Ireland

ATEX Surveillance

- 0598 SGS Fimko Oy (Helsink Finland

Jeremy Krone

Supervisor Product Development Engineering

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 42-44

D-40699 Erkrath



Date: 08Feb2022

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

Product: Encore LT Automatic and Manual Powder Spray Systems

Models: Encore Automatic Applicator and Encore LT Automatic Controllers. Encore LT Manual Applicator with Encore LT Manual Controller.

Description: The automatic electrostatic powder spray system includes applicator, Control cable and associated controllers. These Controls are available in a one applicator, dual applicator or a 4-8 applicator system. The manual powder electrostatic powder spray system includes applicator, control cable and associate controls. This is available in a stationery system, or in a mobile system.

Applicable Directives:

2006/42/EC – Machinery Directive 2014/30/EU – EMC Directive 2014/34/EU – ATEX Directive

Standards Used for Compliance:

EN/ISO12100 (2010) EN60204-1 (2018) EN61000-6-3 (2017) EN60079-0 (2014) EN50050-2 (2013) EN61000-6-2 (2015)

EN60079-31 (2014) EN50177 (2009 +A1:2012) EN5501 (2009)

Principles:

This product has been designed & manuf. according to the Directives & standards / norms described above.

Date:

08Feb2022

Type of Protection:

- Ambient Temperature: +15°C to +40°C

- Ex II 2 D / 2mJ = (Manual and Auto Applicators) - Ex II 2 D / 2mJ = (Manual and Auto Applicators) - Ex II 2 D / 2mJ = (Manual and Auto Applicators)

- EX II (2) 3 D = (Manual & Automatic Contrarers

Certificates:

- FM11ATEX0056X = (Application) (Jublin, Ireland)

- FM11ATEX0057X = (Coptions) (hubbin, Ireland)

ATEX Surveillance

- 0598 SGS Fimko Oy (Herinki Inland)

Jeremy Krone

Supervisor Product Development Engineering

Industrial Coating Systems

Amherst, Ohio, USA

Nordson Authorized Representative in the EU

Contact: Operations Manager

Industrial Coating Systems Nordson Deutschland GmbH Heinrich-Hertz-Straße 42-44

D-40699 Erkrath



FM 7260 (2018)

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

Product: Encore XT / HD Manual Powder Spray Systems

Models: Encore XT Manual, Fixed Mount or Mobile Dolly unit.

Encore Auto Applicator with Encore XT controls for a single gun, automatic systems.

Encore HD Manual, Fixed Mount or Mobile Dolly unit.

Encore Select HD Robot Applicator with Encore HD controls for robot systems.

Description: These are electrostatic, powder spray systems, including applicator, control cables and associated controllers. The Encore XT Manual system uses venturi style pump technology for supplying powder to the spray gun. While the Encore HD Manual system uses high density pump technology for supplying powder to the spray gun.

Applicable Directives:

4/34/EU - ATEX Directive 2006/42/EC - Machinery Directive 2014/30/EU - EMC Directive

Standards Used for Compliance:

EN/ISO12100 (2010) ISEN60079-0 (2014) EN61000-6-3 (2007) M 7260 **5**18) EN50050-2 (2013) EN1953 (2013) EN60079-31 (2014) EN61000-6-2 (2005) EN55011 (2016) EN60204-1 (2018)

Principles:

This product has been designed & manuf. according to the Div ves standards / norms described above.

Type of Protection:

- Ambient Temperature: +15°C to +40°C
- Ex tb IIIB T60°C / Ex II 2 D / 2mJ = (Encore X and H) Applicators)
- Ex tc IIIB T60°C / EX II (2) 3 D = (Controllers)
- Ex II 2 D / 2mJ = (Encore Auto Applicate core select HD Robot Applicator)

Certificates:

- FM14ATEX0051X = Encore XT/ Manual Ar - FM14ATEX0052X = Controls Qublic, Manual Ar 51. And Encore Select HD Robot Appl. (Dublin, Ireland)

Date: 20NOV20

- FM11ATEX0056X = Encore Automatic Applicator (Dublin, Ireland)

ATEX Surveillance

- 0598 SGS Fimko Oy (H Isinki, F hland)

Jeremy Krone

Supervisor Product Development Engineering

Industrial Coating Systems

Amherst, Ohio, USA

Nordson Authorized Representative in the EU

Operations Manager Contact:

> Industrial Coating Systems Nordson Deutschland GmbH Heinrich-Hertz-Straße 42-44

D-40699 Erkrath



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

Product: Encore Enhance Powder Spray Systems

Models: Encore Enhance Dual Manual Unit, Encore Enhance Dual Auto Unit, Encore Enhance Manual Interface, Encore Enhance Stack.

Description: This is an electrostatic, powder spray system, including Manual and Auto applicators, control cables and associated controllers. The Manual & Automatic Controllers are available in different configurations mounted on a power distribution enclosure.

Applicable Directives:

2006/42/EC - Machinery Directive 2014/30/EU - EMC Directive 2014/34/EU - ATEX Directive

Standards Used for Compliance:

EN/ISO12100 (2010) EN60079-0 (2014) EN61000-6-3 (2007) FM 7260 (2018) EN50050-2 (2013) EN60079-31 (2014) EN61000-6-2 (2005) EN55011 (2014)

Principles:

This product has been designed & manufactured according to the Directives & standards / norms described above.

Type of Protection:

- Ambient Temperature: +15°C to +40°C
- Ex tb IIIB T60°C / Ex II 2 D / 2mJ = (Encore XT and HD Manus Appricators)
- Ex tc IIIB T60°C Dc / Ex II (2) 3 D = (Enhance Manual Interface Controller)
- Ex II (2) D = (Enhance Stack Controller) Located in Ural assified Location (Zone)
- Ex II 2 D / 2mJ = (Encore Auto Applicator)

Certificates:

- FM14ATEX0051X = Encore XT and HD Manual policator (Dublin, Ireland)
- FM18ATEX0058X = Controls (Dublin, Ireland)
- FM11ATEX0056X = Encore Automatic Application Dublin, Ireland)

ATEX Surveillance

- 0598 SGS Fimko Oy (Helsinki, Filand)

Jeremy Krone

Engineering Manager Industrial Coating Systems Amherst, Ohio, USA

Nordson Authorized Representative in the EU

Contact: Operations Manager

Industrial Coating Systems Nordson Deutschland GmbH Heinrich-Hertz-Straße 42-44

D-40699 Erkrath



06Jan22

Date:

Product: Encore Engage Powder Spray Systems

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

Models: Encore Main Controller with Display, Encore Main Controller with Remote Display, Encore Engage **Auxiliary Units**

Description: This is an electrostatic, powder spray system, including Manual and Auto applicators, control cables and associated controllers.

Applicable Directives:

2006/42/EC - Machinery Directive 2014/30/EU - EMC Directive 2014/34/EU - ATEX Directive

Standards Used for Compliance:

EN50(30-2 (2013) EN50 (37 2012) EN/ISO12100 (2010) EN61000-6-3 (2007) FM 7260 (2018) EN61000-6-2 (2005) EN55011 (2009)

Principles:

This product has been designed & manufactured according to the Directives & standards / norms described above.

Type of Protection:

- Ambient Temperature: +15°C to +40°C
- Ex tb IIIB T60°C / Ex II 2 D / 2mJ = (Encore XT and HD Manual Applicators)
- Ex tc IIIB T60°C Dc / Ex II (2) 3 D = (Enhance Janua Interior Controller)
- Ex II (2) D = (Engage Controllers and Remote Display) Located in Unclassified Location (Zone)
- Ex II 2 D / 2mJ = (Encore Auto Applicator)

Certificates:

- FM14ATEX0051X = Encore XT and HD Manua Applicators (Dublin, Ireland)
- FM18ATEX0058X = Encore Enlanc, Mar. Interface (Dublin, Ireland)
 FM11ATEX0056X = Encore Acom at Complicator (Dublin, Ireland)
 FM19ATEX0005X = Encore Engage to Controller (Dublin, Ireland)

ATEX Surveillance

- 0598 SGS Fimko Oy (H nland)

Jeremy Krone

Engineering Manager Industrial Coating Systems

Amherst, Ohio, USA

Nordson Authorized Representative in the EU

Contact: **Operations Manager**

> **Industrial Coating Systems** Nordson Deutschland GmbH Heinrich-Hertz-StraBe 42-44

D-40699 Erkrath

Date: 09Feb22

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

Product: Encore Enhance Powder Spray Systems

Models: Encore Enhance Dual Manual Unit, Encore Enhance Dual Auto Unit, Encore Enhance Manual Interface, Encore Enhance Stack. Applicators for use with these controls are Encore Auto, Encore HD Auto, Encore Select HD Auto Robot and Encore XT/HD Manual.

Description: This is an electrostatic, powder spray system, including Manual and Auto applicators, control cables and associated controllers. The Manual & Automatic Controllers are available in different configurations mounted on a power distribution enclosure.

Applicable UK Regulations:

Supply Machinery Safety 2008

Electromagnetic Compatibility Regulation 2016

Equipment & Protective Systems Intended for use in Potentially Explosive Atmosphere Reg 2016

Standards Used for Compliance:

EN/ISO12100 (2010) EN60079-0 (2014) EN61000-6-3 (2007) FM 7260 (2018) EN50050-2 (2013) EN60079-31 (2014) EN61000-6-2 (2005) EN5502 (2026)

Principles:

This product has been designed & manufactured according to the Directive & standards / norms described above.

Type of Protection:

- Ambient Temperature: +15°C to +40°C
- Ex tb IIIB T60°C / Ex II 2 D / 2mJ = (Encore XT and HD Manual Applicators)
- Ex tc IIIB T60°C Dc / Ex II (2) 3 D = (Enhance Manual Interface Controller)
- Ex II (2) D = (Enhance Stack Controller) Located in Unclessified Accation (Zone)
- Ex II 2 D / 2mJ = (Encore Auto Applicator, Encore 1D Asso Applicator and Encore Select HD Robot Appl)

Certificates:

- FM21UKEX0129X = Encore XT and HD Minual Appropriate (Maidenhead, Berkshire, UK)
- FM21UKEX0241X = Controls (Maidenhead, Boxsire, UK)
- FM22UKEX0006X = Encore Automatic Applicator Maidenhead, Berkshire, UK)
- FM21UKEX0223X = Encore HD A comptic Applicator (Maidenhead, Berkshire, UK)

EX Quality System Certificate

- SGS Baseefa NB 1180 (Button, Dubystre, UK)

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

Nordson

06Jan22

Date:

Product: Encore Engage Powder Spray Systems

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

Models: Encore Main Controller with Display, Encore Main Controller with Remote Display, Encore Engage **Auxiliary Units**

Description: This is an electrostatic, powder spray system, including Manual and Auto applicators, control cables and associated controllers.

Applicable UK Regulations:

Supply Machinery Safety 2008

Electromagnetic Compatibility Regulation 2016

Equipment & Protective Systems Intended for use in Potentially Explosive Atmosphere Reg 2016

Standards Used for Compliance:

EN/ISO12100 (2010) EN61000-6-3 (2007) FM 7260 (2018) EN5004 EN61000-6-2 (2005) EN55011 (2009) EN5677

Principles:

This product has been designed & manufactured according to the Direct es & standards / norms described above.

Type of Protection:

- Ambient Temperature: +15°C to +40°C
- Ex tb IIIB T60°C / Ex II 2 D / 2mJ = (Encore XT and H. Manual Applicators)
- Ex tc IIIB T60°C Dc / Ex II (2) 3 D = (Enhance Uni rface Controller)
- Ex II (2) D = (Engage Controllers and Remote Display) Located in Unclassified Location (Zone)
- Ex II 2 D / 2mJ = (Encore Auto Applicator)

Certificates:

- Manua Applicators (Maidenhead, Berkshire, UK) - FM21UKEX0129X = Encore XT and H
- FM21UKEX0241X = Encore Entance Manual Aterface (Maidenhead, Berkshire, UK)
 FM22UKEX0006X = Encore Atom to opplicator (Maidenhead, Berkshire, UK)
- FM21UKEX0240X = Encore Engage Controller (Maidenhead, Berkshire, UK)

EX Quality System Cerficate

- SGS Baseefa NB 1180 Buxton Derbyshire, UK)

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



Date: 09Feb22

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

Product: Encore LT Automatic and Manual Powder Spray Systems

Models: Encore Automatic Applicator and Encore LT Automatic Controllers. Encore LT Manual Applicator with Encore LT Manual Controller.

Description: The automatic electrostatic powder spray system includes applicator, Control cable and associated controllers. These Controls are available in a one applicator, dual applicator or a 4-8 applicator system. The manual powder electrostatic powder spray system includes applicator, control cable and associate controls. This is available in a stationery system, or in a mobile system.

Applicable UK Regulations:

Supply Machinery Safety 2008

Electromagnetic Compatibility Regulation 2016

Equipment & Protective Systems Intended for use in Potentially Explosive Imporphere Reg 2016

Standards Used for Compliance:

EN/ISO12100 (2010) ISEN60079-0 (2013) EN61000-6-3 (2007) FN 7260 (2018) EN50050-2 (2013) EN50177 (2009) EN60079-31 (2014) EN61000-6-2 (2005) EN50111 (2009) EN60204-1 (2018)

Principles:

This product has been designed & manuf. according to the Direct & standards / norms described above.

Type of Protection:

- Ambient Temperature: +15°C to +40°C
- Ex II 2 D / 2mJ = (Manual and Auto Applicators)/ Automatic Applicators are Type: A-P per EN50177
- EX II (2) 3 D = (Manual & Automatic Complete

Certificates:

- FM22UKEX0006X = (Applicator (naidephean, Berkshire, UK)
- FM22UKEX0007X = (Controlles) (Mananhead, Berkshire, UK)

EX Quality System Certificate

- SGS Baseefa NB 1180 Buxton, Derbyshire, UK)

Jeremy Krone

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



Date: 08Feb2022

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

Product: Encore XT / HD Manual Powder Spray Systems

Models: Encore XT Manual, Fixed Mount or Mobile Dolly unit.

Encore Auto Applicator with Encore XT controls for a single gun, automatic systems.

Encore HD Manual, Fixed Mount or Mobile Dolly unit.

Encore Select HD Robot Applicator with Encore HD controls for robot systems.

Description: These are electrostatic, powder spray systems, including applicator, control cables and associated controllers. The Encore XT Manual system uses venturi style pump technology for supplying powder to the spray gun. While the Encore HD Manual system uses high density pump technology for supplying powder to the spray gun.

Applicable UK Regulations:

Supply Machinery Safety 2008

Equipment & Protective Systems Intended for use in Potentially Explosive Atmosphere Regulation 2016 Electromagnetic Compatibility Regulation 2016

Standards Used for Compliance:

EN/ISO12100 (2010) ISEN60079-0 (2014) EN61000-6-3 (2007) FM \(\) 60 (2018) EN50050-2 (2013) EN1953 (2013) EN60079-31 (2014) EN61000-6-2 (2005) EN55011 (2009) EN60204-1 (2018)

Principles:

This product has been designed & manuf. according to the Directives & standards / norms described above.

Type of Protection:

- Ambient Temperature: +15°C to +40°C
- Ex tb IIIB T60°C / Ex II 2 D / 2mJ = (Engage XT) and Har Applicators)
- Ex tc IIIB T60°C / EX II (2) 3 D = (Confollers)
- Ex II 2 D / 2mJ = (Encore Select HD Research App cator)

Certificates:

- FM21UKEX0129X = Encore XTX Marual App & Select HD Robot Appl. (Maidenhead, Berkshire, UK)

Date: 22Sept21

- FM21UKEX0130X = Courols Mail or lead, Berkshire, UK)
- FM22UKEX0006X = Ecore Aut matic Applicator (Maidenhead, Berkshire, UK)

EX Quality System Certicate

- SGS Baseefa NB 1180 (Derbyshire, UK)

Jeremy Krone

Supervisor Product Development Engineering

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



UK DECLARATION of CONFORMITY

Product: Encore Automatic Powder Spray System

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

Models: Encore Automatic Applicator and Encore iControl 2

Description: The automatic electrostatic powder spray system includes applicator, control cable and associated controllers. These controls are available in a 4 - 16 applicator control cabinets as a main console with a pc and display or an auxiliary console without the pc or display. There is an optional Pedestal unit for remote mounting of the display.

Applicable UK Regulations:

Supply Machinery Safety 2008

Electromagnetic Compatibility Regulation 2016

Equipment & Protective Systems Intended for use in Potentially Explosive Atposphere Reg 2016

Standards Used for Compliance:

EN60079-31 (2014) EN50177 (2009) EN55011 (2009)

Type of Protection:

- Ambient Temperature: +15°C to +40°C
- Ex II 2 D / 2mJ = Auto Applicators
- Ex II (2) D = Main Console and Auxiliary Console Consolers
- Ex II (2) 3 D = Optional Pedestal

ATEX Product Certificates:

- FM22UKEX0006X = (Applicators) (Maid mead Berk lire, UK)
- FM21UKEX0224X (Controllers) (Maid inhead Berkshire, UK)

EX Quality System Certificate

- SGS Baseefa NB 1180 (Buxto De Vire, UK)

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

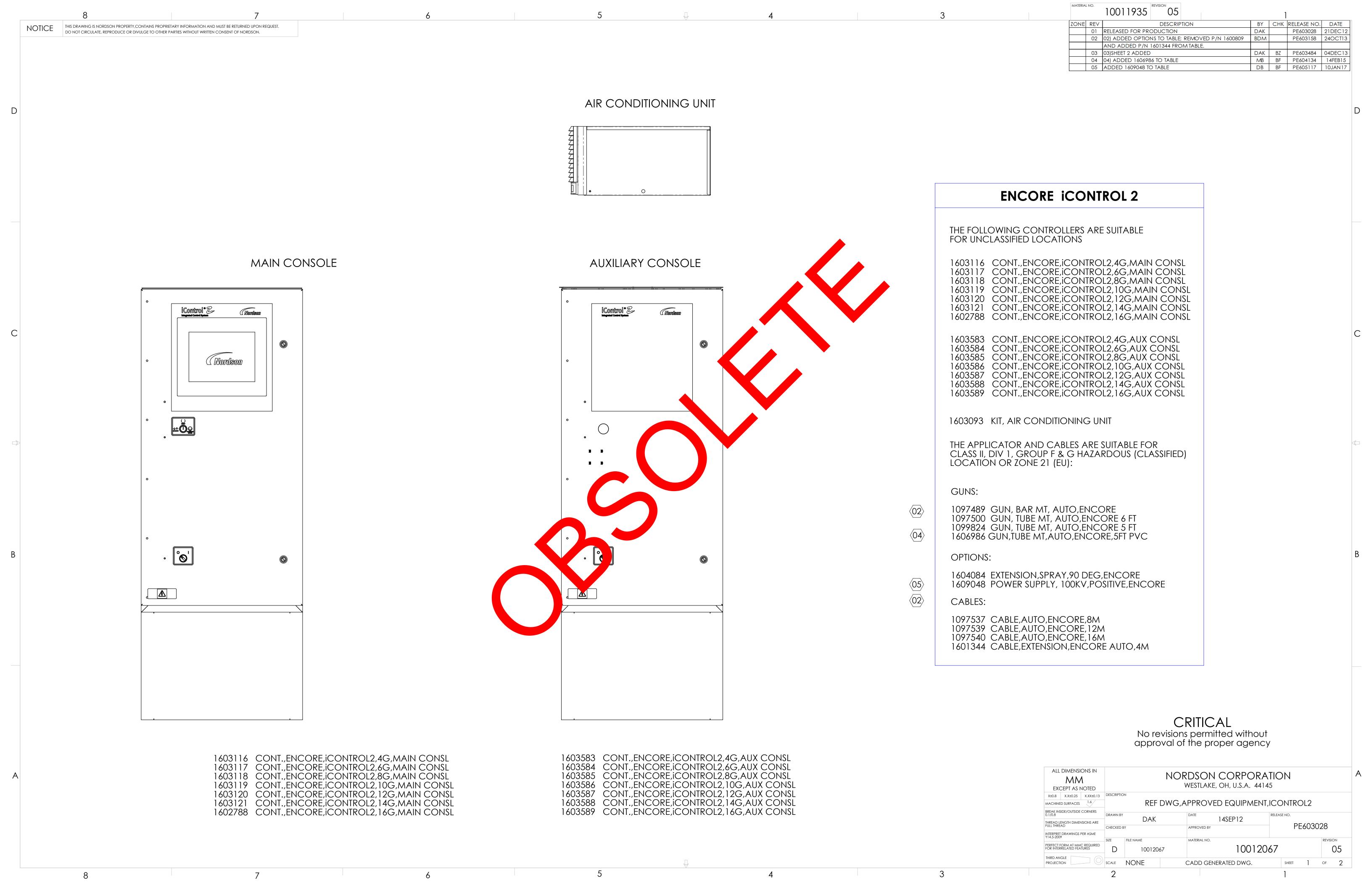
England

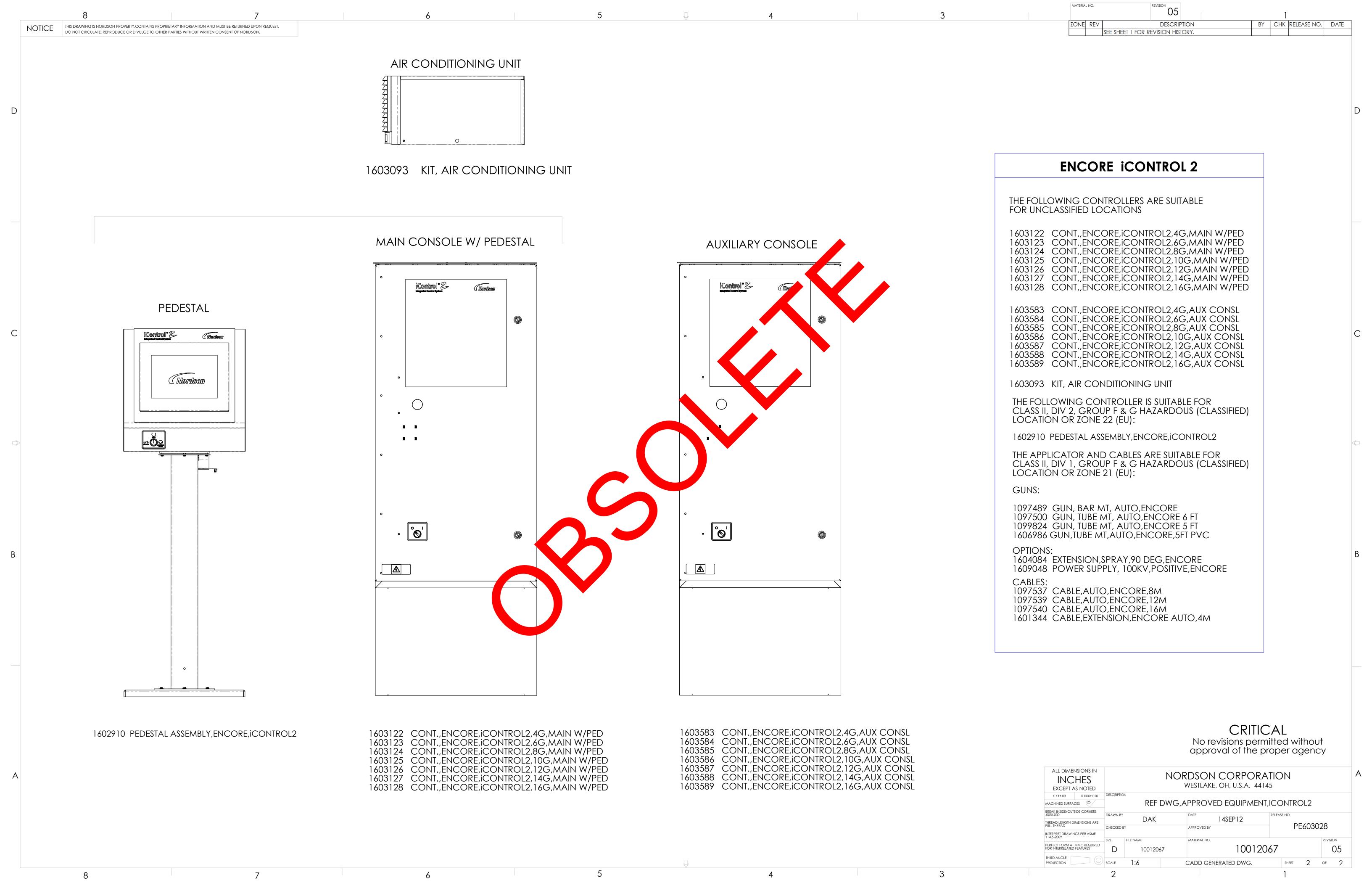


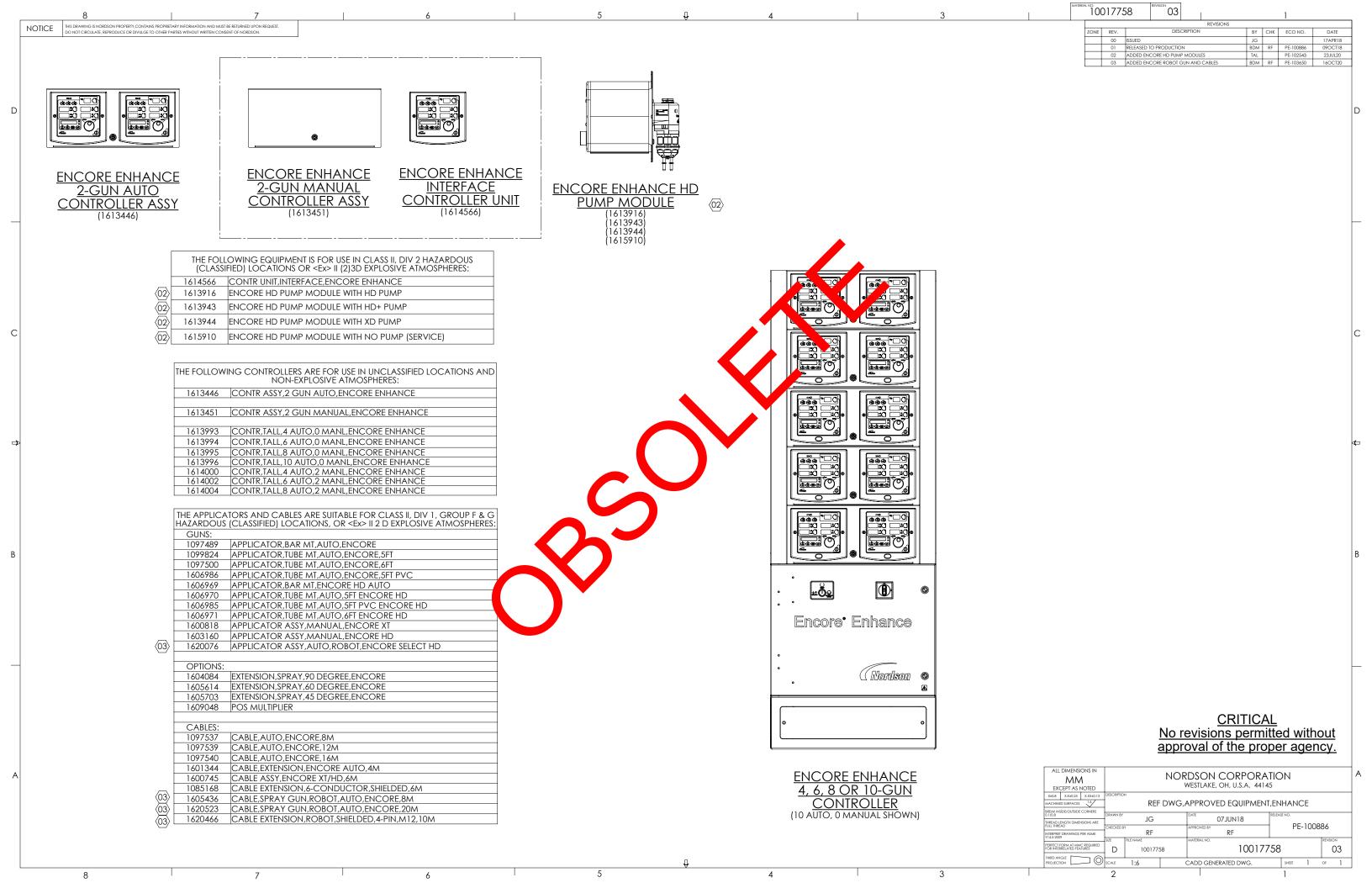
Date:

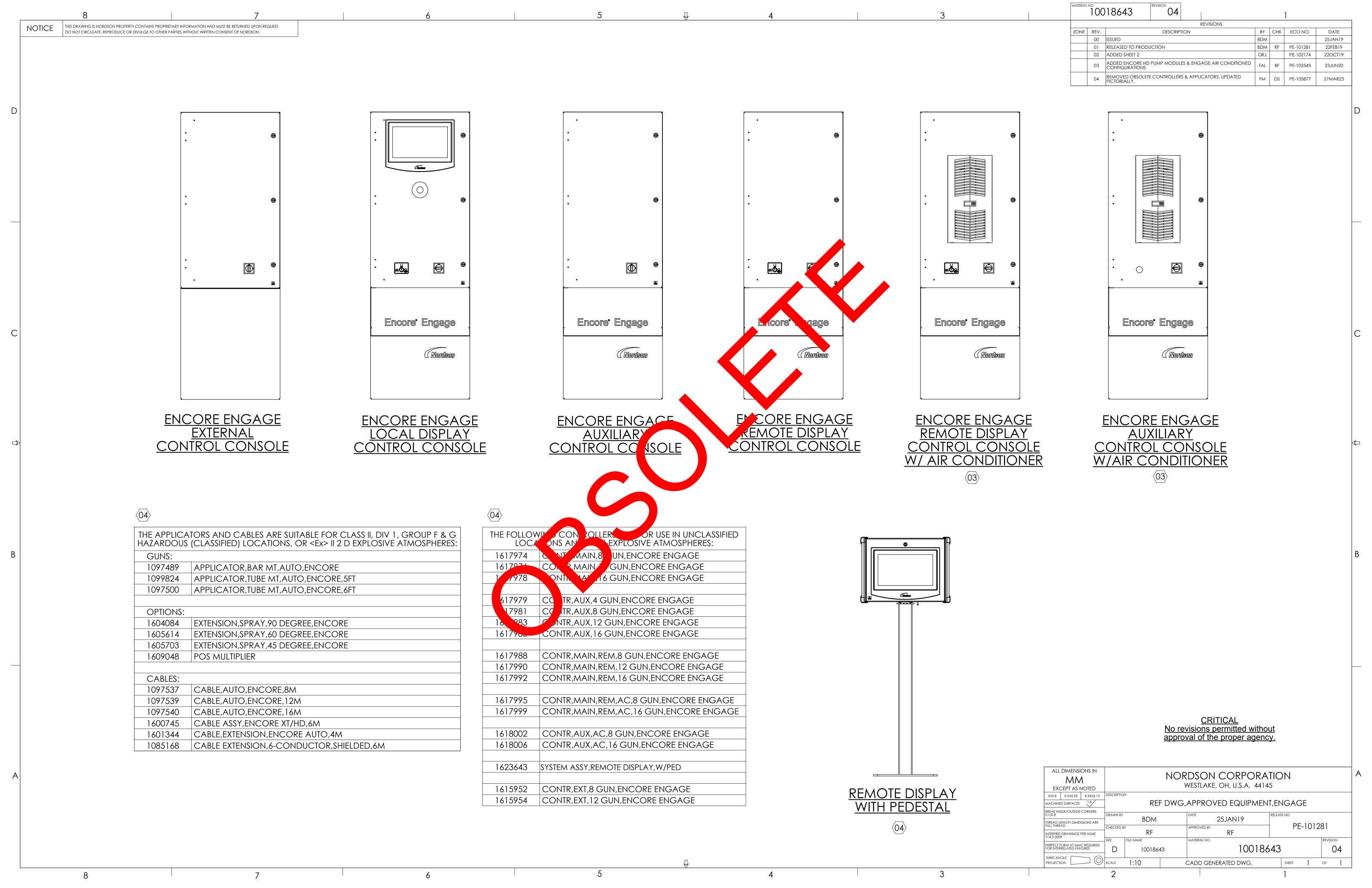
08Feb2022

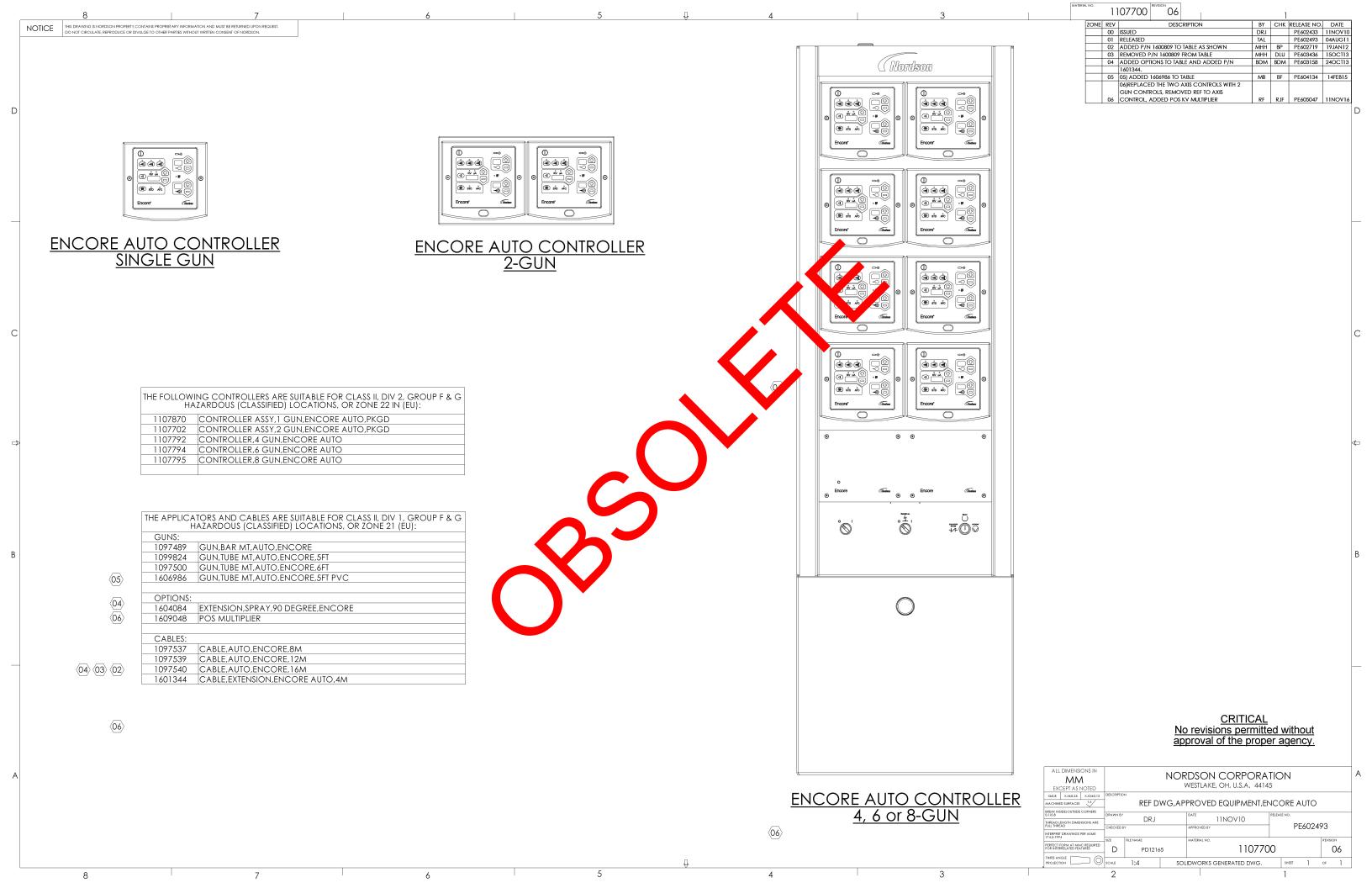
50 (2018)

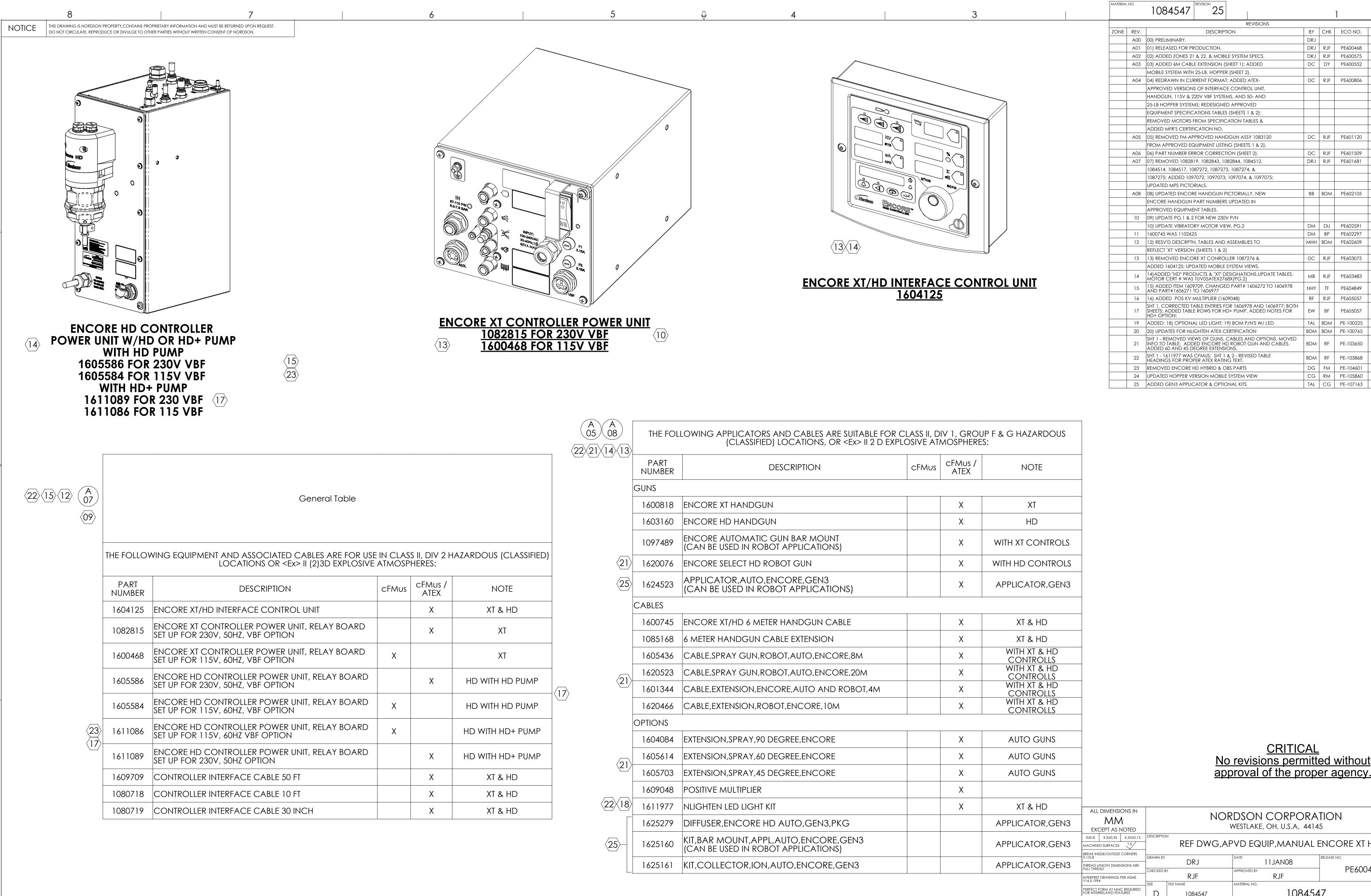












8

1084547 PROJECTION SCALE |

1084547 SOLIDWORKS GENERATED DWG. SHEET 1 OF 2

PE600468 25

11.JAN08

01FEB08

21FEB08

30MAY08

12MAR09

22OCT13

05MAR15

01NOV16

21NOV17

22MAY18

22AUG18

16OCT20

05FEB21

13OCT21

15MAR24

PE600552

PE601681

PE602591

PE602297

PE604849

PE605057

PE605057

PE-103650

REF DWG,APVD EQUIP,MANUAL ENCORE XT HD \

