



POWDER COATING EQUIPMENT USER'S MANUAL

# E-GUN+3 C2

SERIES



Check our  
product  
online

[electron.com.tr](http://electron.com.tr) + [info@electron.com.tr](mailto:info@electron.com.tr)

 **Electron**

---

© 2023 Sistem Teknik Makina A.Ş.

All rights reserved.

10010 St. No: 10

35470

İTOB Menderes

Izmir TURKEY

No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of Sistem Teknik Makina San. Ve Tic. A.Ş. Under the law, reproducing includes translating into another language or format.

As between the parties Sistem Teknik Makina San. ve Tic. A.Ş. retains title to, and ownership of, all proprietary rights with respect to the software contained within its products. The software is protected by International copyright laws and international treaty provision. Therefore, you must treat the software like any other copyrighted material (e.g. a book or sound recording).

Every effort has been made to ensure that the information in this manual is accurate. Sistem Teknik Makina San. Ve Tic. A.Ş. is not responsible for printing or clerical errors. Information in this document is subject to change without notice  
R7-2021

---

## Table of Contents

<b>1. Safety Regulations .....</b>	<b>2</b>
1.1. Safety Symbols .....	2
1.2. Conformity of Use .....	2
1.3. Technical Safety Regulations for Stationary Electrostatic Powder Spraying Equipment .....	3
1.3.1. General Information .....	3
1.3.2. Consciously Working Safe .....	3
1.3.3. Safety Regulations for the Operating Firm and/or Personnel.....	3
<b>2. E-GUN+3 C2 General Information .....</b>	<b>4</b>
2.1. Field of Application .....	4
2.2. Technical Data .....	5
2.3. Design and Functions .....	6
2.4. Optional Attachments .....	7
2.5. Fast Corona Ring.....	8
2.6. Working Principle.....	8
2.6.1. High Voltage Generation .....	8
2.6.2. Flat Type Nozzle Structure .....	9
2.6.3 Deflector Type Nozzle Structure .....	9
<b>3. Start Up .....</b>	<b>10</b>
3.1. System Connections .....	10
3.2. Operation .....	14
3.2.1. Trigger .....	14
<b>4. Cleaning and Maintenance .....</b>	<b>14</b>
4.1. Cleaning .....	14
4.1.1. Gun Body Cleaning .....	14
4.1.2 Nozzle Cleaning .....	14
4.2. Maintenance .....	14
4.2.1. Part Change .....	14
<b>5. Troubleshooting .....</b>	<b>15</b>
<b>6. Spare Parts List .....</b>	<b>16</b>
<b>7. Service and Maintenance Table .....</b>	<b>32</b>
<b>8. Product Life and Warranty .....</b>	<b>33</b>

## %" GUZYhmiFY[ i `Uh]cbg

This section sets out the fundamental safety regulations that must be followed by the user and third parties using the E-COAT+3 PRO. These safety regulations must be read and understood before the E-COAT+3 PRO is used.

### %"%"GUZYhmiGna Vc`g

The following warnings with their meanings can be found in the Sistem Teknik Makina operating instructions. The general safety precautions must also be followed as well as the regulations in the operating instructions.



85B; 9F ..  
9'YWF]WU 'UbX'a cj ]b[ 'dUfhg'dcgY 'U'\UhUFX"  
DcgjVY '7cbgYei YbWg '8YUH 'cf 'gYf]ci g]b'i fm'



K 5FB-B; ..  
=a dfcdYf'i gY'k ]` XUa U[Y'kY'XYj ]W'cf 'WU gY'a UZi bW]cb" ..  
DcgjVY 'WbgYei YbWg 'A]bcf ]b'i f]Yg'cf 'XUa U[Y'kC 'Yei ]da Ybh'

### %"%"7cbZcfa ]hmcZI gY

1. E-COAT+3 PRO Manual Coating Equipment is built to the latest specification and conforms to the recognized technical safety regulations. It is designed for the normal application of powder coating.
2. Any other use is considered as non-conform. The manufacturer is not responsible for damage resulting from improper use of this equipment; the end-user alone is responsible. If the E-COAT+3 PRO is to be used for other purposes or other substances outside of our guidelines then Sistem Teknik Makina A.Ş. should be consulted.
3. Observance of the operating, service and maintenance instructions by the manufacturer is also part of conformity of use. The E-COAT+3 PRO should only be used, maintained and started up by trained personnel, who are informed about and are familiar with the possible hazards involved.
4. Start-up is forbidden until it has been established that the E-COAT+3 PRO has been set up and wired according to the guidelines for machinery EN 60204-1 (machine safety) must also be observed.
5. Unauthorized modifications to E-COAT+3 PRO exempt the manufacturer from any liability from resulting damage.
6. Relevant accident prevention regulations, as well as other generally recognized safety regulations, occupational health and structural regulations are to be observed.
7. In addition to above, country-specific safety regulations must be observed.

.....: neahh'dc EgliZXI 'dc '8a/hh'd[": "8D6I ž( EGD'8dcigiazgJ c1

: neahh'dc EgliZXI 'dc	EgliZXI 'dc1 neZ	I Zb e '8a/mh
II 3(2)D	IP54	

.....: neahh'dc EgliZXI 'dc '8a/hh'd[": "<J Cž( '8( Edl YZgEV'ci ^<j c

9 d'cg]cb DfchYVW]cb	DfchYVW]cb 'HhdY	Hya d'7'Ugg
II 2 D	IP64	

: neahh'dc EgliZXI 'dc '8a/hh'd[": "<J Cž( '8( Edl YZgEV'ci ^<j c

9 d'cg]cb DfchYVW]cb	DfchYVW]cb 'HhdY	Hya d'7'Ugg
II 2 D	IP54	

**Note:** EN 60204-1 this standard includes the non-mobile machines electronic machines and programmable electronic hardware and systems.

%" " HYWb]W GUZYlmFY[ i `Uh]cbg`Zcf `GhUh]cbUfm9`YWifcghUh]WDck XYf `GdfUm]b[ '9ei ]da Ybh

%" "%" ; YbYfU `bZcfa Uh]cb

The powder spraying equipment of Sistem Teknik Makina (Electron) is designed for safe use and to the latest technological specs. Electrostatic powder equipment could create dangerous situations unless it's used properly. In addition to that, there might be a danger to life and limb of the user or third party, a danger of damage to the equipment and other machinery that belongs to the user and hazards to the proper operation of equipment.

1. The powder spraying equipment should only be started up and used once the operating instructions have been carefully read. Apart from any usage from the user manual, there lies a danger of damaging the equipment and loss of control of the equipment.
2. Operational safety has to be observed before every start-up. Regular Servicing is the essence of working safely.
3. Local legislation should be considered for the safety.
4. The plug has to be disconnected before the machine is opened for repair.
5. The plug and socket connections between spraying equipment should only be taken out when the power is off.
6. The connection cables have to be installed in a manner that they wouldn't interfere or damage the normal machine operation. Also the local legislation should be observed for the installation.
7. Only original Electron spare parts should be used, because only the original products will guarantee the equipment's explosion protection. Any damage caused by other used parts is not covered by the guarantee.
8. If Electron powder spraying equipment is going to be used with other devices/machinery from other manufacturers, their safety regulations should be also considered.
9. Be cautious while working in a powder/air mixture area. In the right concentration the mixture would be flammable, thus smoking is forbidden in the entire plant area.
10. Rule of thumb says that any person who uses a pacemaker should NEVER enter a high voltage area or places with electromagnetic fields. Note that people with pacemakers ALSO SHOULDN'T work in powder spraying installations.



K 5FB-B; ::

Only the customer itself is responsible for the safe usage of the equipment.  
Sistem Teknik is not responsible for any damage resulted from the usage.

%" "&" 7cbgWci g'mk cf\_]b[ 'GUZY

Every other individual who will be working for the assembly, start-up, operation, service and repair of powder spraying equipment must have read and understood the operating instructions and the "Safety Regulations". Operators have to be appropriately trained via Sistem Teknik assembly personnel and made aware of the possible danger of powder spraying equipment and the environment.

The control units for guns must only be set up and used in zone 22. The spray guns are permitted in the zone 21 which is created by them but only them.

Powder spraying equipment must only be used by trained and authorized personnel. This also applies for any kind of modification to the electrical equipment, which only should be carried out by a specialist.

It is essential that the operating instructions are understood before any kind of work is done with the equipment. All the procedures have to be done according to the instructions. Powder spraying equipment can be turned off via the main power switch or the emergency shut down procedure.

%" " GUZYlmFY[ i `Uh]cbg`Zcf `hY`CdYfUh]b[ ' : ]fa `UbX#cf `DYfgcbbY`

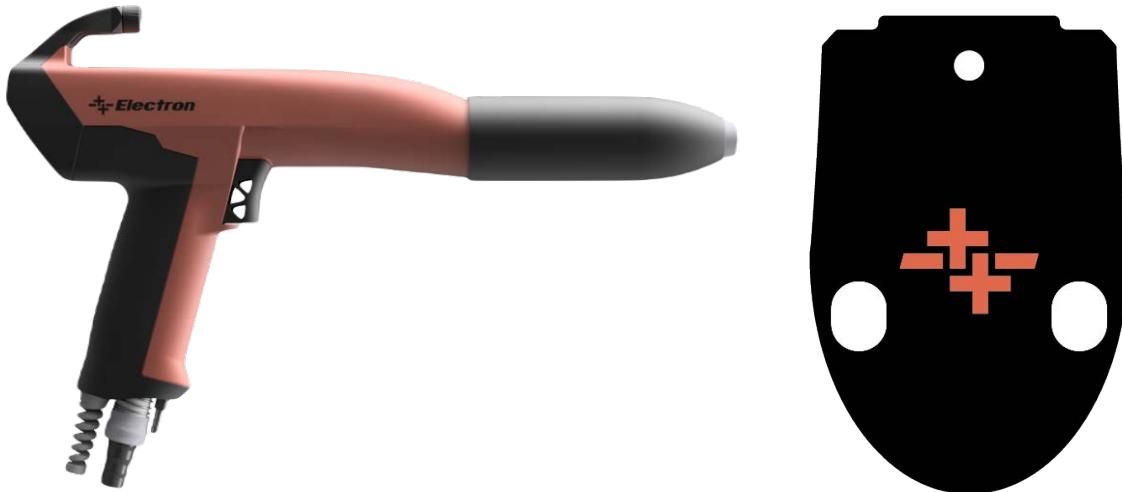
1. First of all, anything which would influence the equipment negatively should be avoided for the technical safety.
2. The machine user should be well informed about no other people than trained personnel would use the machine.
3. The employer has to provide an operating instruction manual for specifying the dangers for humans and the environment by handling dangerous materials, as well as all preventive measures and workplace behaviors. This "document" must be well written in an understandable form in the language that the person employed for the equipment.
4. The operator is obliged to check the equipment for external damage once every shift changed at the very least. The operation characteristic changes should also be reported.
5. Users should conform the satisfactory working conditions else the equipment should not be used.
6. The operating firm must ensure that the users wear protective clothing like facemasks and working suits.
7. The firm also guarantees the cleanliness of the workplace and proper checks for the powder spraying equipment.
8. Safety devices should be always on the equipment at all costs unless the equipment is going to be maintained or cleaned. After the maintenance all the devices should be put on the equipment. The users must be trained well for this purpose.
9. Powder fluidization or high voltage spray gun checks have to be done when the equipment is switched off.

## 2. E-GUN+3 C2 General Information

**Note:** E-GUN+3 C2 Manual Powder Coating Gun includes a 7 mt powder transfer cable.

### 2.1. Field of Application

E-GUN+3 C2 Manual Powder Coating Gun is designed to use with the organic coating powder. Any other usage of the gun is non-conform. Electron is not responsible for the non-conform usage.



E-GUN+3 C2 Powder Coating Gun

Explosion Protection	Ingress Protection
	IP64

#### **Note:**

Explosion Protection of the E-GUN+3 C2 Powder Coating Gun is only valid if the gun is used with Electron E-COAT+3 PRO and Master P Control Units with proper connections don't by the trained personnel. The control unit must be earthed with a resistance below 1 M Ohm. Unless the right Zones are defined and the gun is setup without instructed, Electron is not responsible from any damage or potential damage.

## Common User Mistakes

- Trying to coat without grounding the part
- Enamel Powder use
- Not calibrating the powder, supplementary and nozzle airs.
- Humid Powder use

## Conformity between Products

Electron E-GUN+3 C2 manual electrostatic spray gun can be used with the products below:

- E-COAT+3 PRO
- E-COAT+3 Master P
- E-COAT+3 Master
- E-FEED V2 or E-FEED+3 INJ
- E-FEED AP

## 2.2. Technical Data

### Electrical Data

E-GUN+3 C2 Powder Coating Gun	
Input Voltage (Nominal)	20 Vp-p
Frequency	17 kHz (Average)
Output Voltage (Nominal)	120 kV
Polarity	Negative (Optionally Positive)
Output Current (Max.)	120 µA
High Voltage Indicator	Gun back LED
Explosion Protection	EX 2mJ T6
Working Temperature	0 °C - +40 °C (32 °F - +104 °F)
Surface Temperature (Max.)	85 °C (+185 °F)
Ingress Protection	IP 64
Certification	

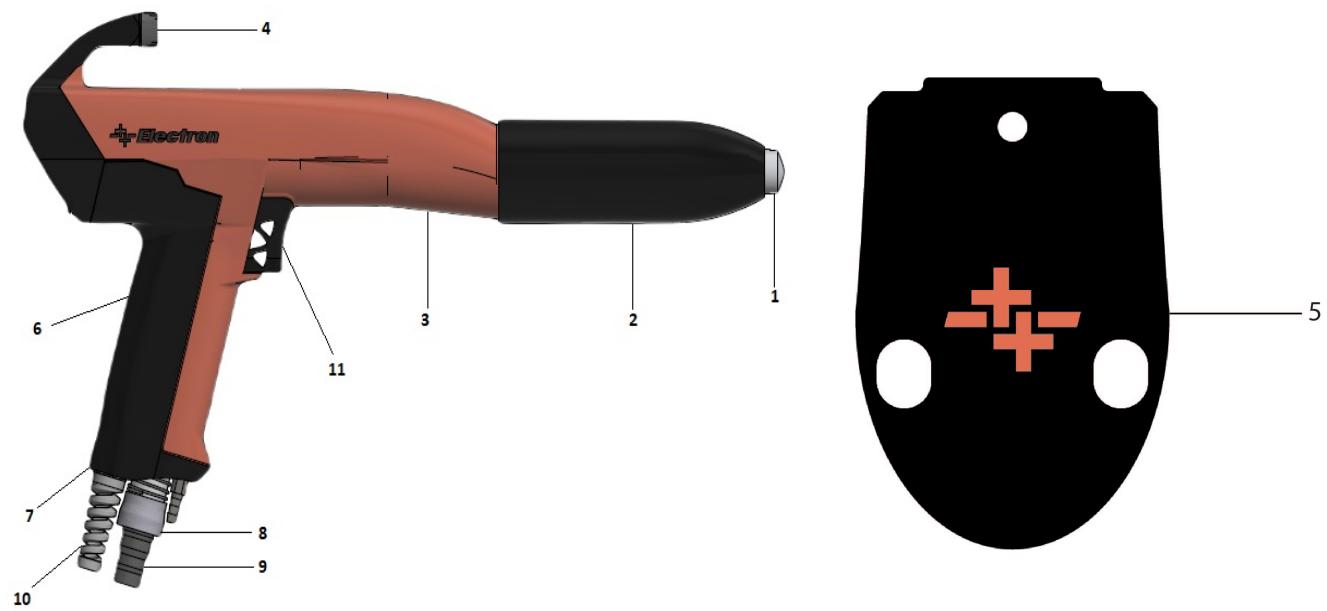
## Weight

E-GUN+3 C2 Manual Powder Coating Gun	
Weight	500 g

## Usable Powders

E-GUN+3 C2 Manual Powder Coating Gun	
Plastic Coating Powder	Conform
Metallic Coating Powder	Conform
Enamel Coating Powder	Non-Conform

### 2.3. Design and Functions



1. Nozzle Group	7. Need Air Input Connection
2. Nozzle Torque Nut	8. Cable Connection Locking Ring
3. Gun Body (Anti-Static)	9. Powder Coating Cable Connection
4. Back Hanger (Conductive)	10. Gun Cable
5. Back Cover	11. Trigger
6. Gun Grip (Conductive)	

## 2.4. Optional Attachments

- FastPurge™ Fast Cleaning Module
- FastCorona™ De-lonizer Ring
- Nozzle Extensions Types
- Different Nozzle Types
- Gun Cable Extension

\* For more information please check the Spare Parts Selection Guide.

### FastPurge™ Fast Cleaning Module

FastPurge™ fast cleaning module is only usable with the E-COAT+3 PRO control unit and the usable guns with this systems are E-GUN+3 C2 and C3 powder coating guns.

This module is used where the system does not need a thorough cleaning and colour change. It starts cleaning from the injectors to the tip of the guns with a very fast manner and cleans the powder channels.

E-COAT+3 PRO powder coating device FastPurge™ mode starts the cleaning and the module under the injector starts blowing at the same pressure as input pressure through the hoses and the system is cleaned. FastPurge™ module ensures the air sealing while operating with a check valve.



FastPurge™ Module

**Note:** Since the E-COAT+3 Master P works with the E-Feed AP pump, the cleaning module is not used. For the E-COAT+3 Master P, Quick Clean mode scenario, see the corresponding manual.

## 2.5. Fast Corona Ring

The Fast Corona Ring is an optional extension for the gun, allowing for a better surface quality when coating with the powder coating equipment.

The performance of the gun with Fast Corona Ring is convincing due to its very good charging and very high deposition rate as well as an improved penetration into Faraday cages. The distance between nozzle and workpiece can be reduced to 100 mm without influencing the surface finish. In this way, the orange peel effect is minimized in cases where more delicate powder coating needs to be performed.

Before fitting the Fast Corona ring, make sure that the connection and the plug-in connector are free from grease and powder, otherwise the electric contact cannot be guaranteed.



**E-GUN+3 C1/C2 Fast Corona Ring Assembly**

## 2.6. Working Principle

### 2.6.1. High Voltage Generation

Electrostatic Powder Coating Control Unit sends at most 17 Vp-p valued 17 kHz electrical signal to the E-GUNs. This signal which travels through the gun cable to the gun reaches an item called "Cascade" which multiplies the voltage. This voltage multiplier system is made from two tiers one of which is the transformer (1). This transformer gets the signal up to a voltage and its then delivered to the second tier (2) where there is capacitor and diodes. The signal gets rectified and multiplied. This multiplied signal is delivered to the pre resistor which ensures the safety of the electricity level differences then to the output nozzle group. This high voltage is first loaded to the carbon ring then the tip of the nozzle and transferred to the powder paint while operating.



**E-CASCADE+3**

### 2.6.2. Flat Type Nozzle Structure

Flat Type Nozzle creates a hand fan shape on the powder while operating and also ensures that the powder is loaded as intended. The nozzle loads the high voltage from the output center to the powder. The high voltage electrode reaches to the tip of the nozzle from a white conical material. This conical isolator and the electrode has to stay clean at all times so the nozzle air should be arranged accordingly. Check the E-COAT+3 PRO manual for the preference setup.

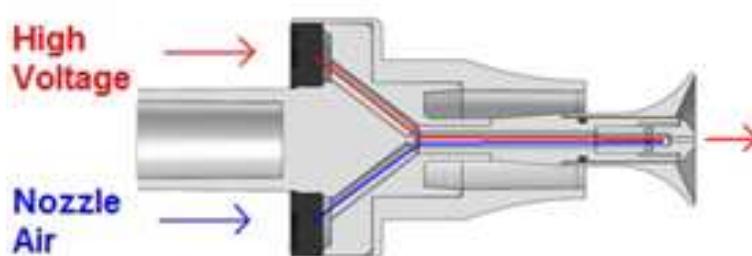


#### WARNING!

The corrugated surface of the carbon ring must face out. If it is inserted opposite, the gun can be damaged.

### 2.6.3. Deflector Type Nozzle Structure

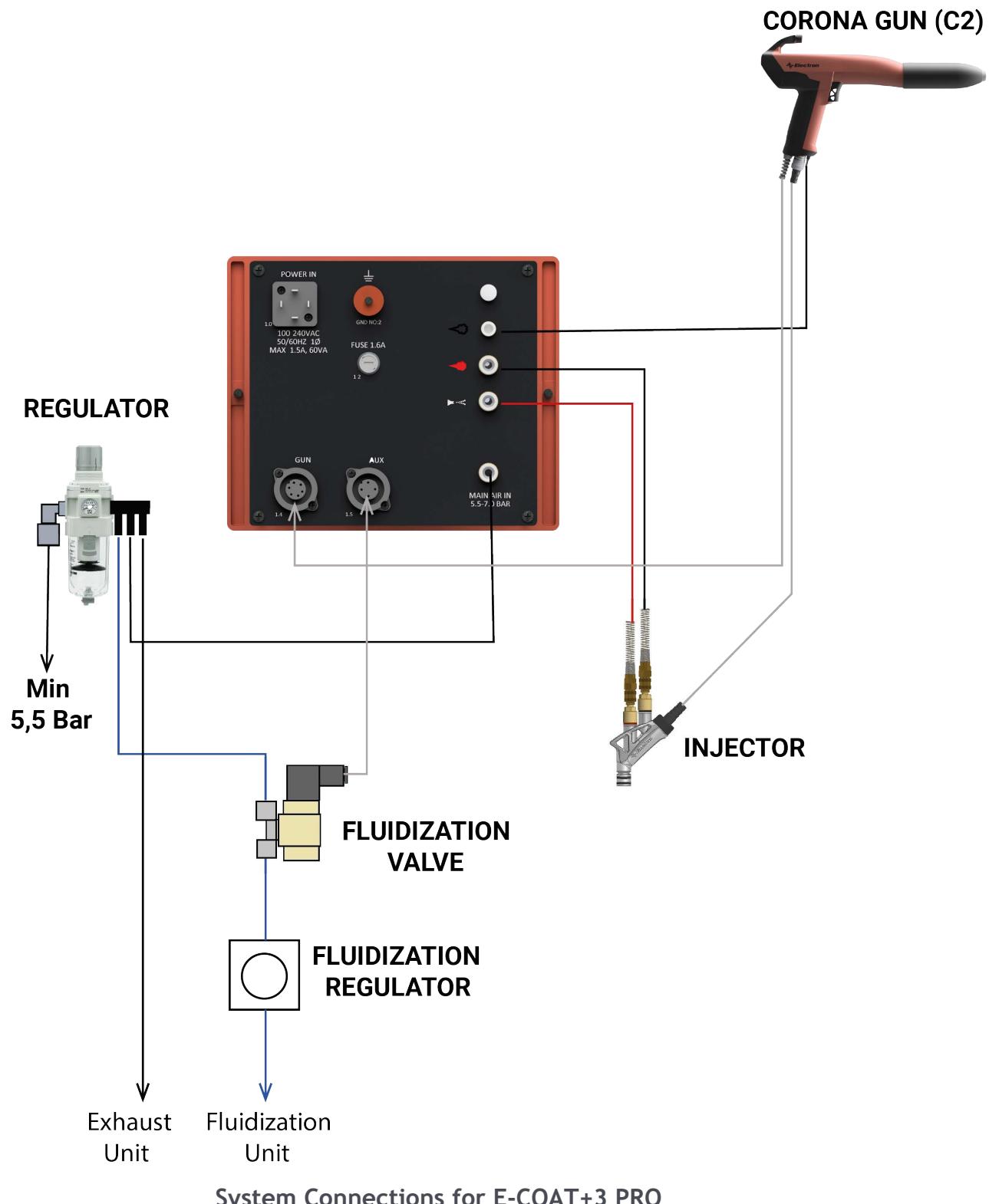
Deflector type nozzle creates a cloud like pattern as the powder paint comes out from the gun. The nozzle loads the powder with high voltage. High voltage electrode travels through a cylindrical white material to the tip of the nozzle. This isolator and the electrode should stay clean at all times so the nozzle air has to be set accordingly. Check the E-COAT+3 PRO Control Unit guide for the calibration instructions.



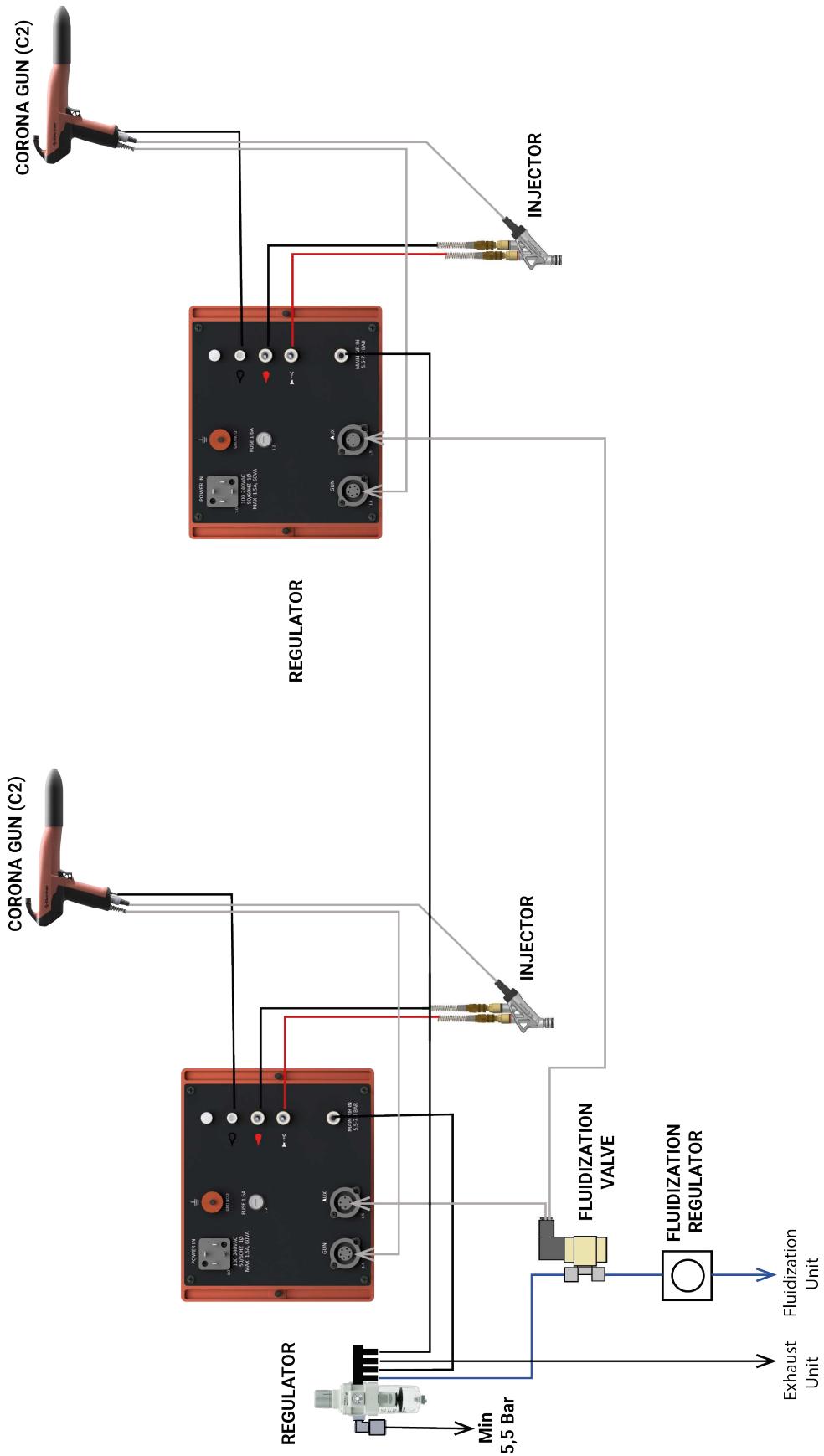
### 3. Start Up

#### 3.1. System Connections

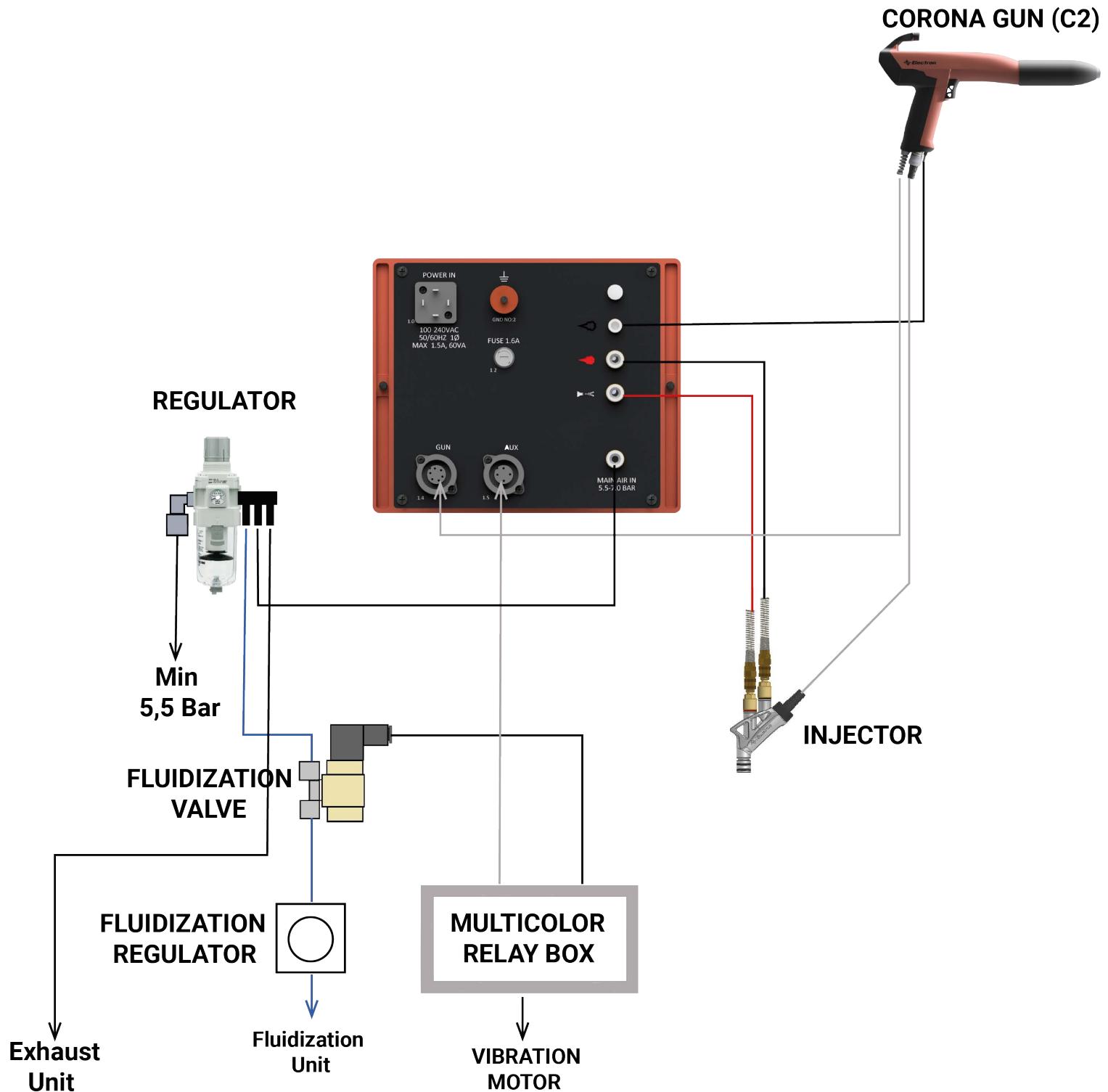
a. “Bare” and “H” type Device Kits Electro-Pneumatic Connections



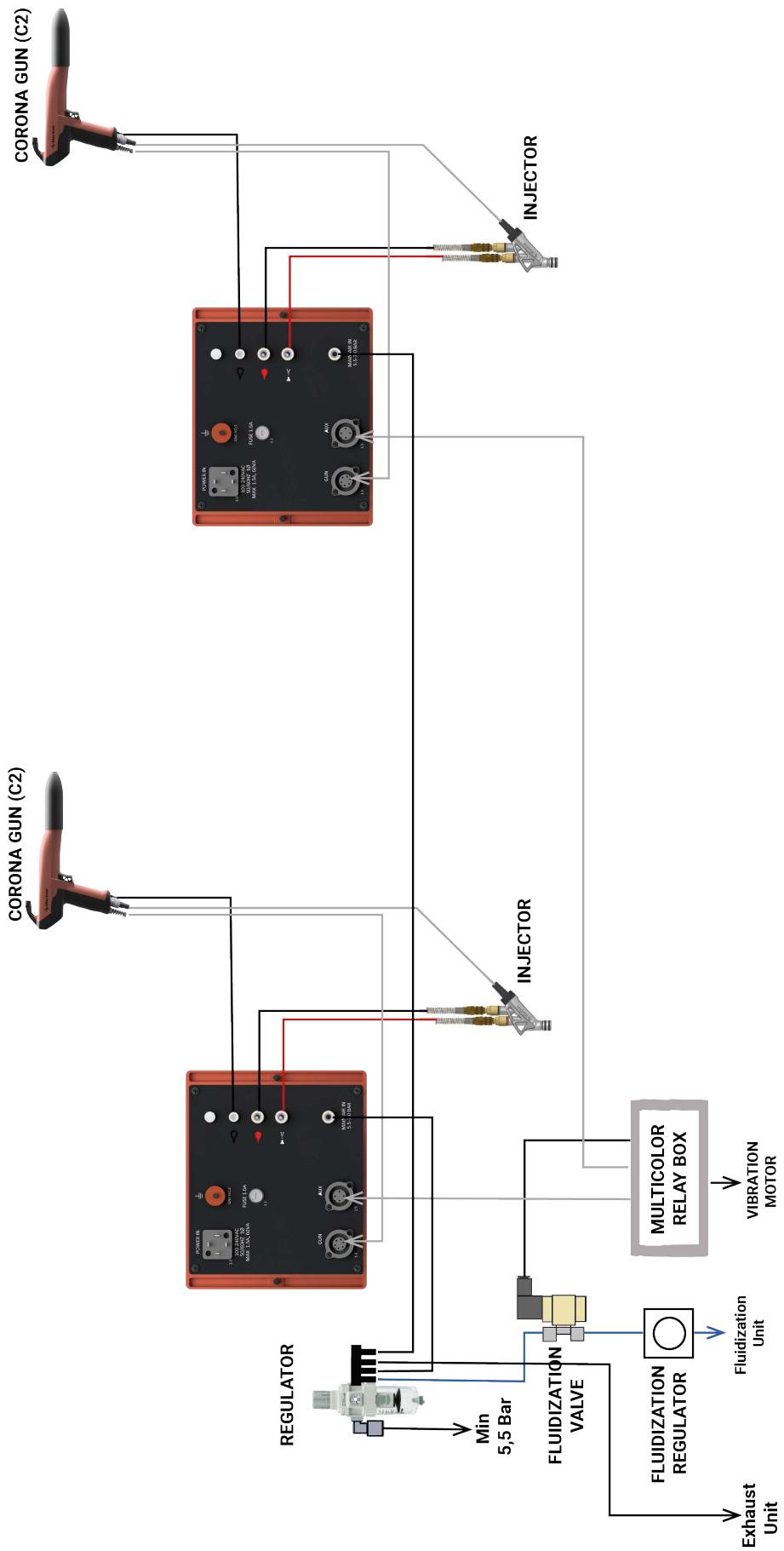
b. Double “Bare” and “H” type Device Kits Electro-Pneumatic Connections

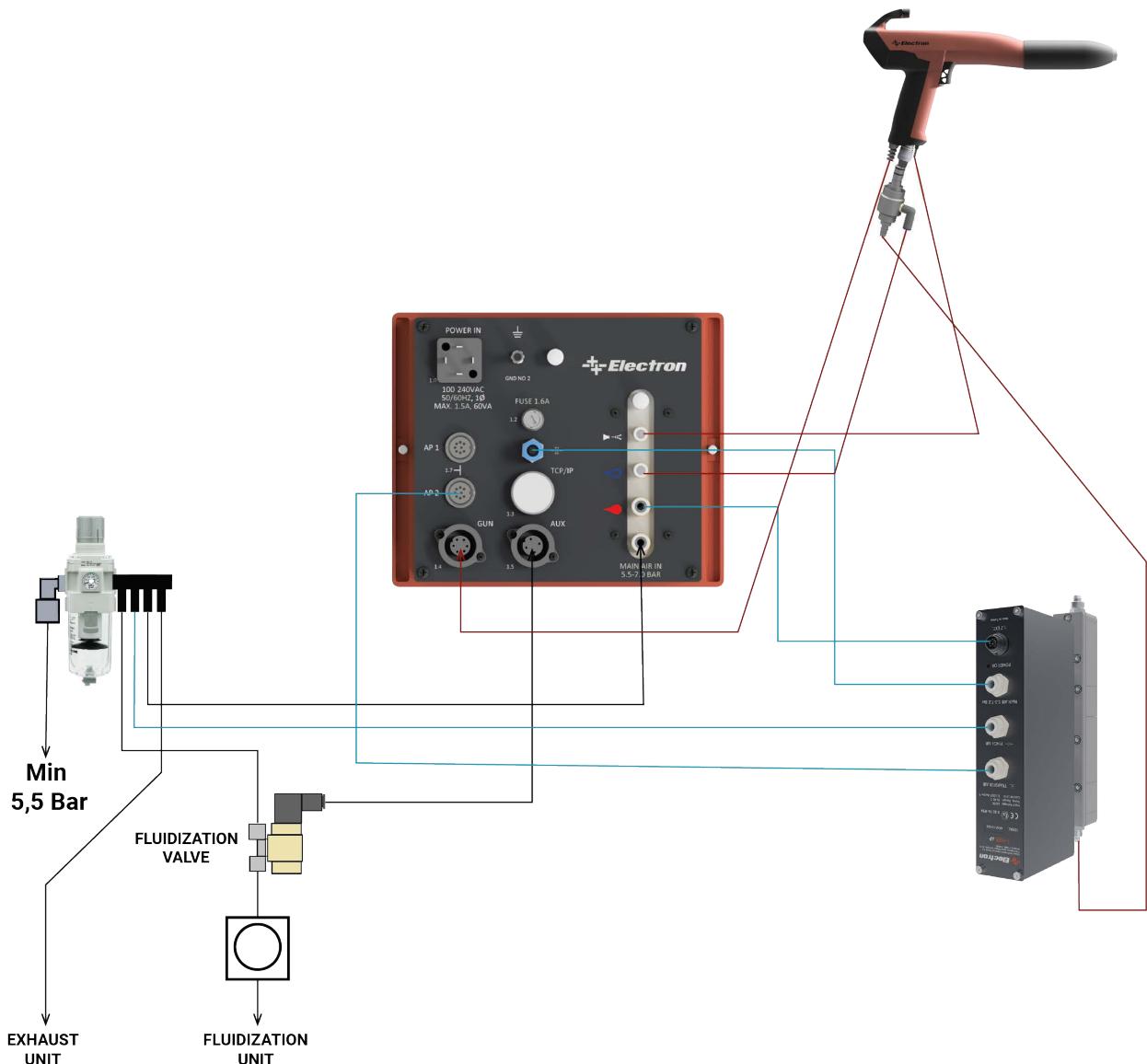


c. "M" type Device Kits Electro-Pneumatic Connections



X"8ci VY† A† \m{Y}8Yj ]W?jhg9YWfc!DbYi a UhjWU 7cbbYW\cbg





### System Connections for E-COAT+3 Master P

The procedure of the connections between the gun and the control unit is explained below:

- Connect the nozzle air hose and the powder paint hose to the gun.
- Put the connected cable and the gun downwards. Get the “touch and close fastener” from the materials package and tie the hose and the gun cable.
- Put the gun cable into the #1.4 7 pin socket at the back of E-COAT+3 PRO Control Unit
- Connect the gun nozzle air hose on signed  connector at the the back of the control unit.
- Connect the Powder Paint hose to the injector.

### 3.2. Operation

#### 3.2.1. Trigger

E-GUN+3 C2 type electrostatic powder coating gun can be only triggered from the trigger button at the front of the gun handle. When the gun is triggered, the preferences on the control unit (electrical and pneumatic values will directly effect the signal on the gun and air will be sent to the injector to transfer powder paint.

#### Double Trigger, Changing Between Recipes

The E-GUN+3 C2 is rather a special type of gun where the user can change the recipes from the gun trigger. This is done by using double trigger. The user can press the trigger twice in a row to change between the user defined recipe. Using the double trigger again will result in changing back to the first recipe.

#### FastPurge™ Mode Trigger Function

When the E-COAT+3 PRO control unit is in FastPurge™ mode the system will only start sending air if the gun is triggered. Once the gun is triggered, the control unit will start sending pressurized air through the air channels for cleaning. Releasing the trigger for a consecutive three seconds will stop the cleaning mode and the control unit will change to the normal mode.

### 4. Cleaning and Maintenance

#### 4.1. Cleaning

##### 4.1.1. Gun Body Cleaning

###### *Daily:*

- Clean the body of the gun with pressurized air and a clean towel.
- Remove the nozzle torque nut.
- Remove the gun nozzle and the electrode and clean the gun with pressurized air.

###### *Weekly:*

- Remove the powder paint hose.
- Clean the powder paint input of the gun with pressurized air.
- Clean the powder paint hose starting from the injector.

##### 4.1.2. Nozzle Cleaning

###### *Every other shift or at the end of a working day:*

- Remove the nozzle torque nut.
- Remove the gun nozzle and clean both the electrode and the nozzle.
- Clean all the powder thoroughly. Never try to scratch the paint with a strong material.

###### *Weekly:*

- Check the nozzle group for scratches. Change the nozzle group using the spare parts list if needed.

#### 4.2. Maintenance

E-GUN C2 type manual powder coating gun is designed to be maintained with minimum effort.

- Clean the powder gun body with a clean towel.
- Make an eye check on the gun cable and input hoses.
- Change the powder and pneumatic hoses if needed.

##### 4.2.1. Part Change

The user can only change the consumables of the gun and some of the E-GUN+3 C2 manual powder coating gun parts.

Note: Operations like Changing the Cascade, Trigger mechanism or Gun Cable can only be done by an ELECTRON® approved personnel.

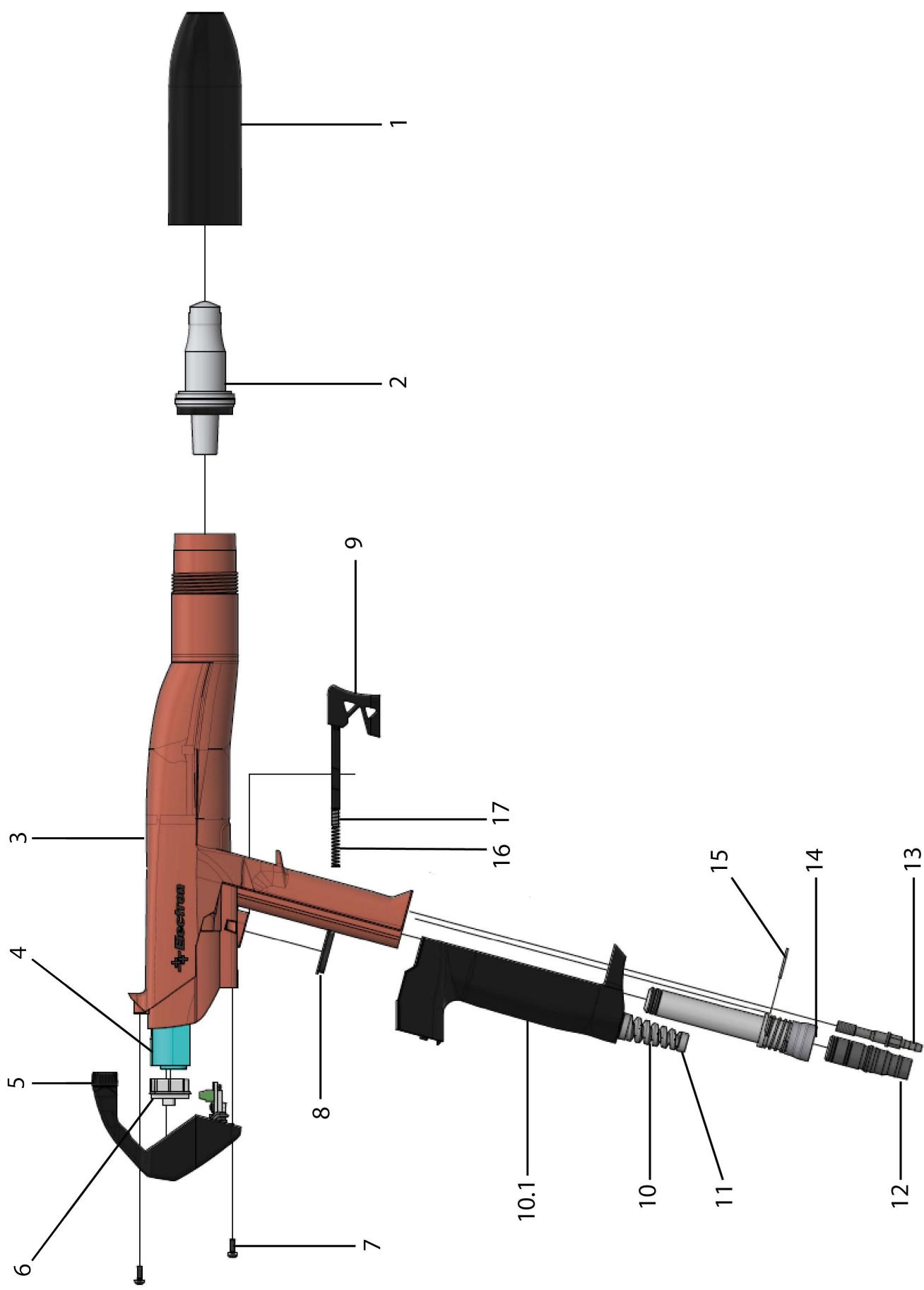
## 5. Troubleshooting

Failure	Explanation	Suggestions
There isn't any high voltage and the control unit is flashing with kV and $\mu$ A signs	<ol style="list-style-type: none"> <li>1. Gun cable is not connected.</li> <li>2. The gun cable is connected but not well fixed to the socket.</li> <li>3. Gun cable is damaged.</li> <li>4. Cascade is damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect the gun hose.</li> <li>2. Fix the cable to the socket.</li> <li>3. Consult an ELECTRON expert.</li> </ol>
Powder Paint is being blown from the gun but the paint doesn't hold on the material (No High Voltage Output)	<ol style="list-style-type: none"> <li>1. Blockage in the powder route</li> <li>2. The Air or Powder Ratio segment is set to 0</li> <li>3. Tearing or disconnection between the injector and the control unit.</li> <li>4. If the preferences are adjusted in a well manner, the proportional valve inside the gun might be damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Purge in the powder route</li> <li>2. Change powder ratio (%)</li> <li>3. Check the connection between the injector and the control unit.</li> <li>4. Consult an ELECTRON expert</li> </ol>
Pressing the trigger doesn't start the control unit (The LED in front of the control unit is not lit)	<ol style="list-style-type: none"> <li>1. Gun trigger is damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Consult an ELECTRON expert</li> </ol>
Parameters at the installation are configured but the powder pattern is not well.	<ol style="list-style-type: none"> <li>1. Teflon bushing in the injector's life cycle is ended.</li> <li>2. Nozzle life cycle is ended.</li> <li>3. Pneumatic hoses are damaged/broken or plugged.</li> <li>4. The air channels are plugged.</li> <li>5. Injector jet's life cycle is ended</li> </ol>	<ol style="list-style-type: none"> <li>1. Change the Teflon bushing.</li> <li>2. Change the nozzle</li> <li>3. Fix the pneumatic hoses or change them if needed.</li> <li>4. Clean the injector and the filters. Change any necessary parts.</li> <li>5. Change the injector jet.</li> </ol>
The gun trigger is working and the High Voltage is working but there is no powder output.	<ol style="list-style-type: none"> <li>1. Teflon bushing in the injector's life cycle is ended.</li> <li>2. Nozzle life cycle is ended</li> <li>3. Pneumatic hoses are damaged/broken or plugged.</li> <li>4. The air channels are plugged.</li> <li>5. Injector jet's life cycle is ended</li> </ol>	<ol style="list-style-type: none"> <li>1. Blockage in the powder route</li> <li>2. The Air or Powder Ratio segment is set to 0</li> <li>3. Tearing or disconnection between the injector and the control unit.</li> <li>4. Consult and ELECTRON expert</li> </ol>

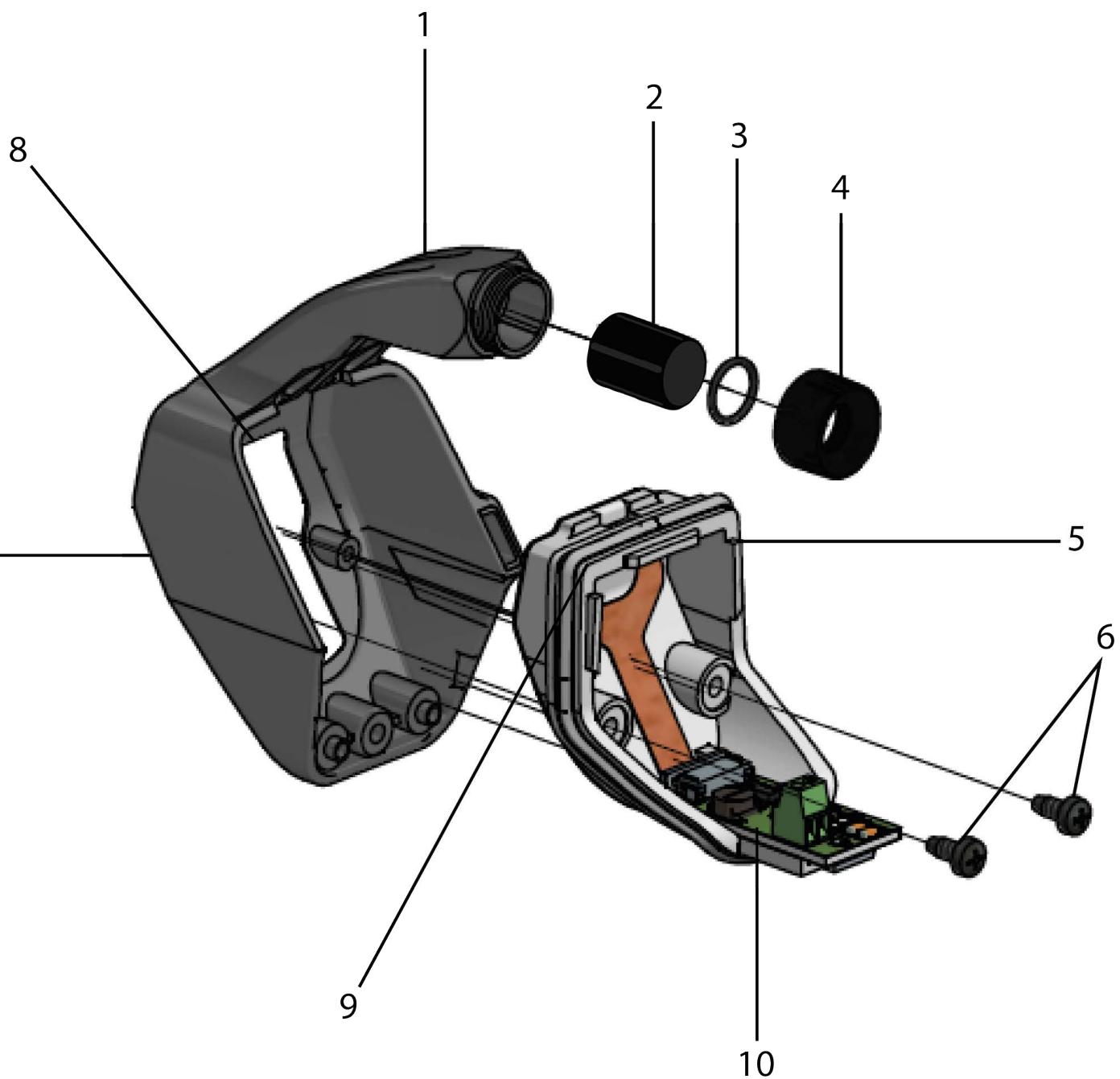
## 6. Spare Parts List



Part No	Order Code	Part Name	Wearing Part
1	B07EGC200+3	E-GUN+3 C2 MANUAL POWDER COATNG GUN	N/A



PART #	ORDER CODE	PART NAME	Wearing Part	RECOMMENDED STOCK PARTS
1	B10631007	E-GUN+3 NOZZLE TIGHTENING NUT	N/A	✓
2	B07531002	E-GUN+3 FLAT HEAD GROUP	✓	✓
3	B10631001	E-GUN+3 MANUAL GUN PLASTIC BODY (COMPLETE)	✓	✓
4	B07EGCN02	E-CASCADE+3	N/A	✓
5	B07BC0003	E-GUN+3 BACK COVER (COMPLETE)	N/A	✓
5.1	B07EGK002	E-GUN+3 LED COMPLETE SET	N/A	✓
6	ENEM04009	E-GUN+3 ISOLATION GASKET	N/A	✓
7	BECV01001	M3X8 YSB BOLT	N/A	N/A
8	ENEM04011	E-GUN+3 HANDLE GASKET	N/A	✓
9	B07531003	E-GUN+3 MANUAL GUN TRIGGER (COMPLETE)	N/A	N/A
10	B07531005	E-GUN+3 MANUAL GUN HANDLE SET (COMPLETE)	N/A	N/A
10.1	B10631006	E-GUN+3 MANUAL GUN HANDLE PLASTIC	N/A	N/A
11	ELKA03008	E-GUN+3 SPIRAL TIP HOSE FITTINGS	N/A	N/A
12	B07EC0004	E-GUN+3 POWDER HOSE CONNECTION w/ O-RING	N/A	✓
13	TRTM08279	E-GUN+3 NEEDLE AIR INLET Ø8XL50	N/A	N/A
14	B07531004	E-GUN+3 MANUAL GUN POWDER INLET TUBE	✓	✓
15	B06CE22001	E-GUN+3 POWDER HOSE LOCKING	N/A	N/A
16	BEDH09013	E-GUN+3 CHROME TRIGGER SPRING	N/A	N/A
17	BEDH14008	E-GUN+3 CYLINDRICAL TRIGGER MAGNET	N/A	N/A



PART #	ORDER CODE	PART NAME	WEARING PART	RECOMMENDED STOCK PARTS
1	B10631008	E-GUN+3 C2 BACK COVER	N/A	✓
2	TRTM03118	E-GUN+3 C2 COVER PLASTIC	N/A	N/A
3	IZOR01076	O-RING Ø8X1	N/A	✓
4	B10631004	E-GUN+3 C2 HANGER END COVER PLASTIC	N/A	✓
5	ENEM04010	E-GUN+3 BUTTON BODY	N/A	✓
6	BECV09001	SCREW 3X6,5 PLASTIC PYSB METALLIC	N/A	N/A
7	B07LG5008	FLEX PCB	N/A	✓
8	ETKT03079	E-GUN+3 C2 BACK KEYPAD LEXAN	N/A	✓
9	ENEM04010	E-GUN+3 BUTTON BODY GASKET	N/A	✓
10	B07EGK001	E-GUN+3 C2 MANUEL GUN CARD (COMPLETE)	N/A	✓



$L = 5 \text{ m}$

$L = 10 \text{ m}$

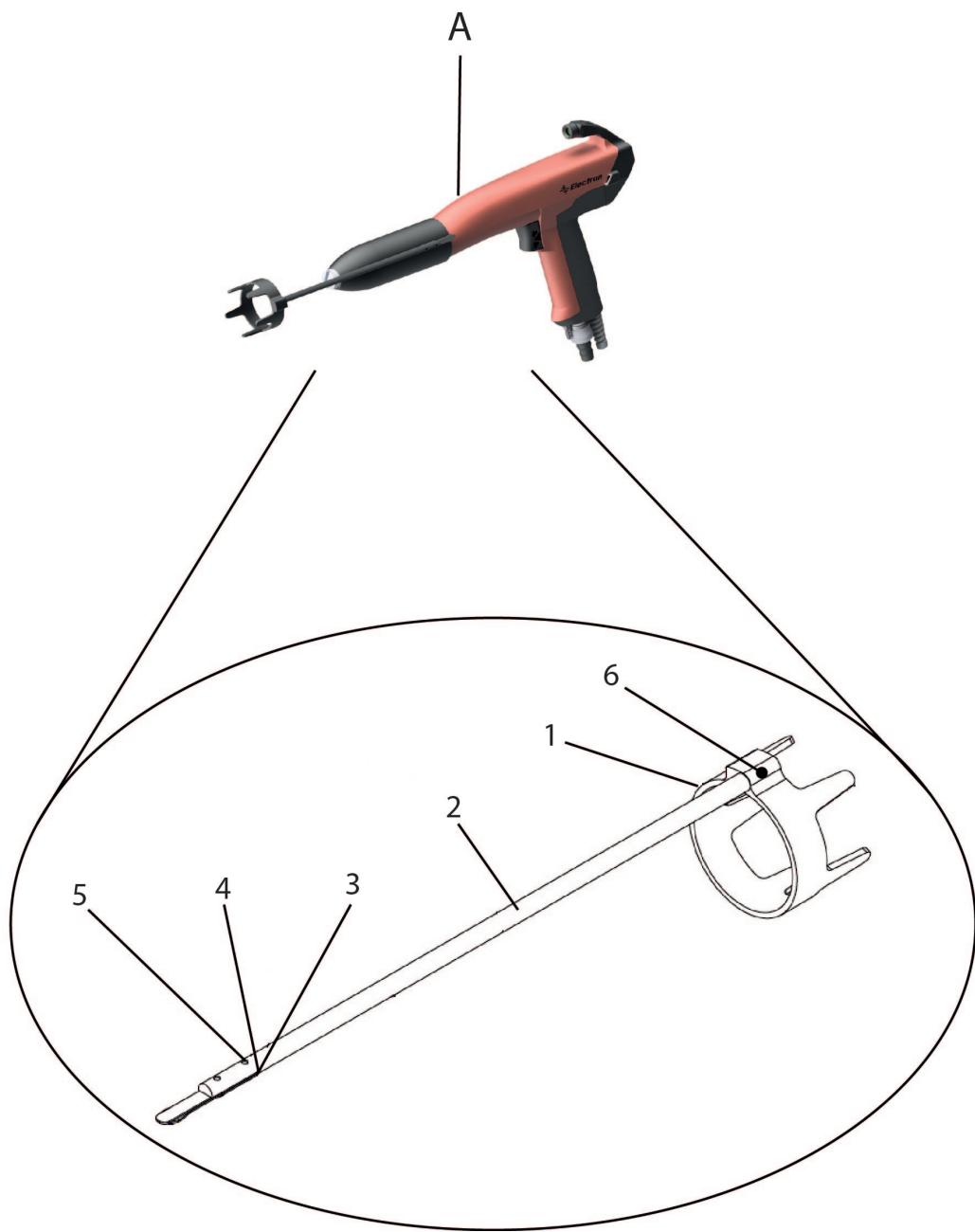
Part No	Part Name	Order Code	Wearing Part	RECOMMENDED STOCK PARTS
1	E-GUN GUN CABLE EXTENSION KIT 5 M	B07EXT005	N/A	N/A
2	E-GUN GUN CABLE EXTENSION KIT 10 M	B07EXT006	N/A	N/A



Part No	Part Name	Order Code	Wearing Part	RECOMMENDED STOCK PARTS
1	11X16 POWDER HOSE w/ DOUBLE CARBON DISCHARGE LINES (ORDER IN METERS)	PNH003003	✓	✓



Part No	Part Name	Order Code	Wearing Part
1	E-COAT+3 EARTHING CABLE (3m)	B07ECK506	N/A



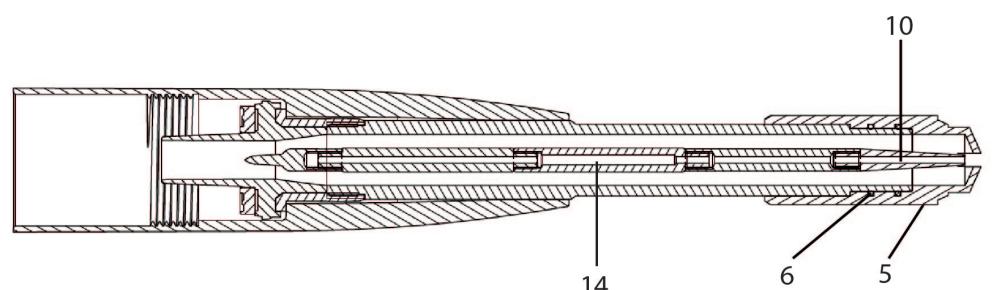
Part No	Order Code	Part Name	Wearing Part
A	B07FCR301	E-GUN+3 C1 FAST CORONA RING	N/A
1	TRTM04199	E-GUN+3 FAST CORONA RING CHARGE COLLECTOR	N/A
2	TRTM04201	E-GUN+3 FAST CORONA RING SHAFT Ø6XL193	N/A
3	BEDH09017	E-GUN+3 FAST CORONA LOCKING SPRING	N/A
4	BEDH09016	E-GUN+3 FAST CORONA LOCKING BASE SPRING	N/A
5	BECV02041	SCREW M2,5X5	N/A
6	BEDH08003	SETSCREW M4X06	N/A



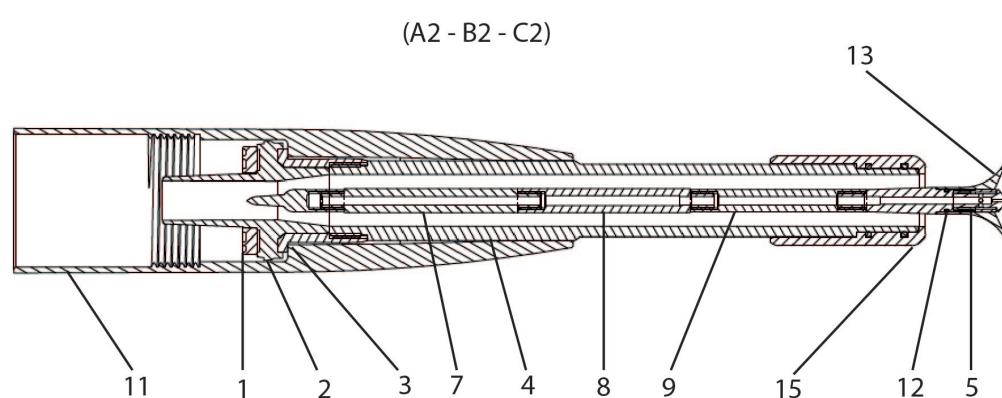
EXTENSION HEAD GROUPS - FLAT



EXTENSION HEAD GROUPS - DEFLECTOR (A1/B1/C1)



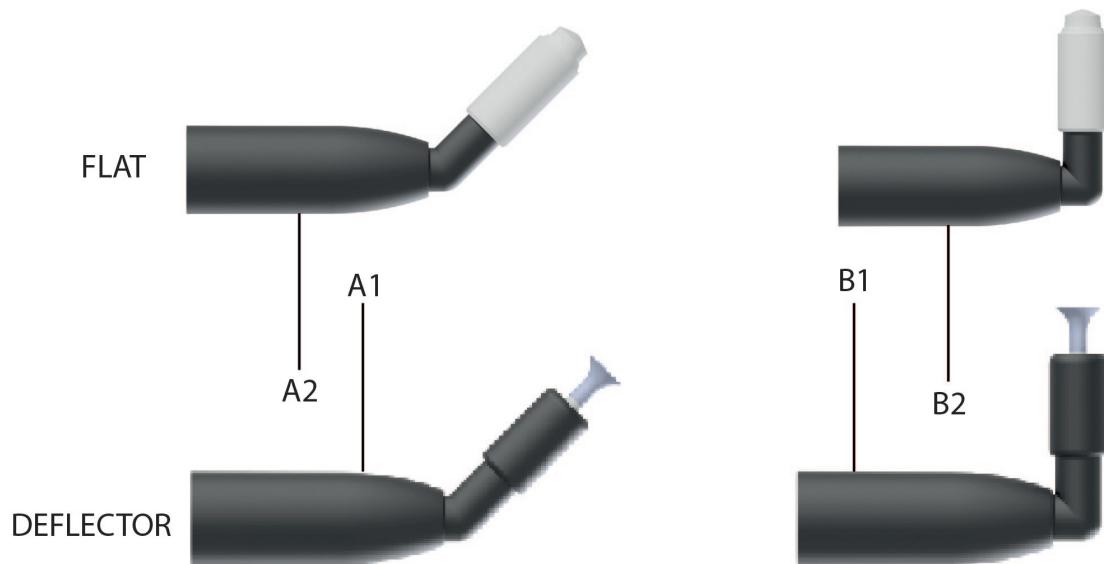
(A2 - B2 - C2)



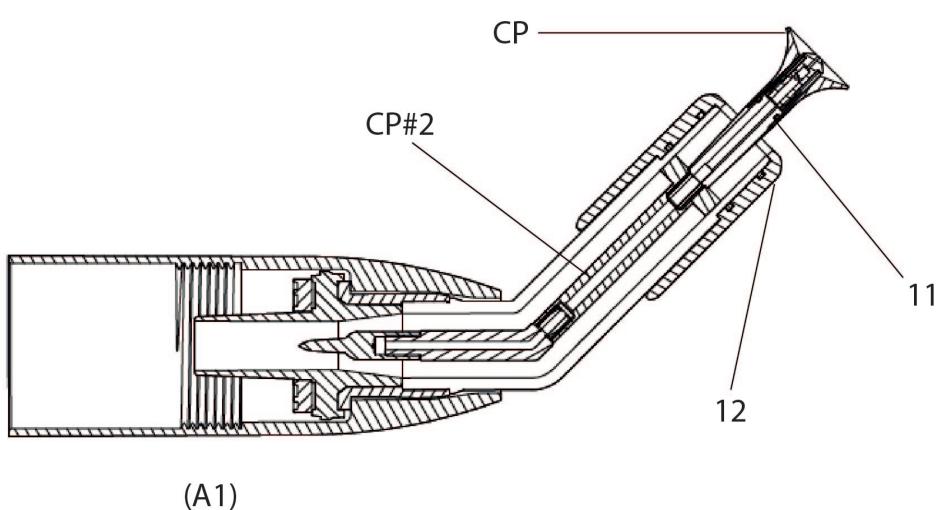
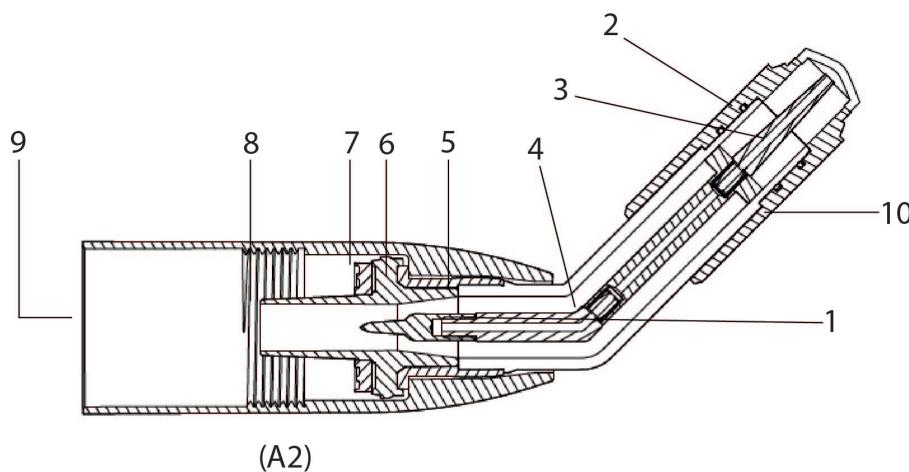
(A1 - B1 - C1)

If any extension head assembly is used, the gun is no longer comply with the explosion protection regulation.

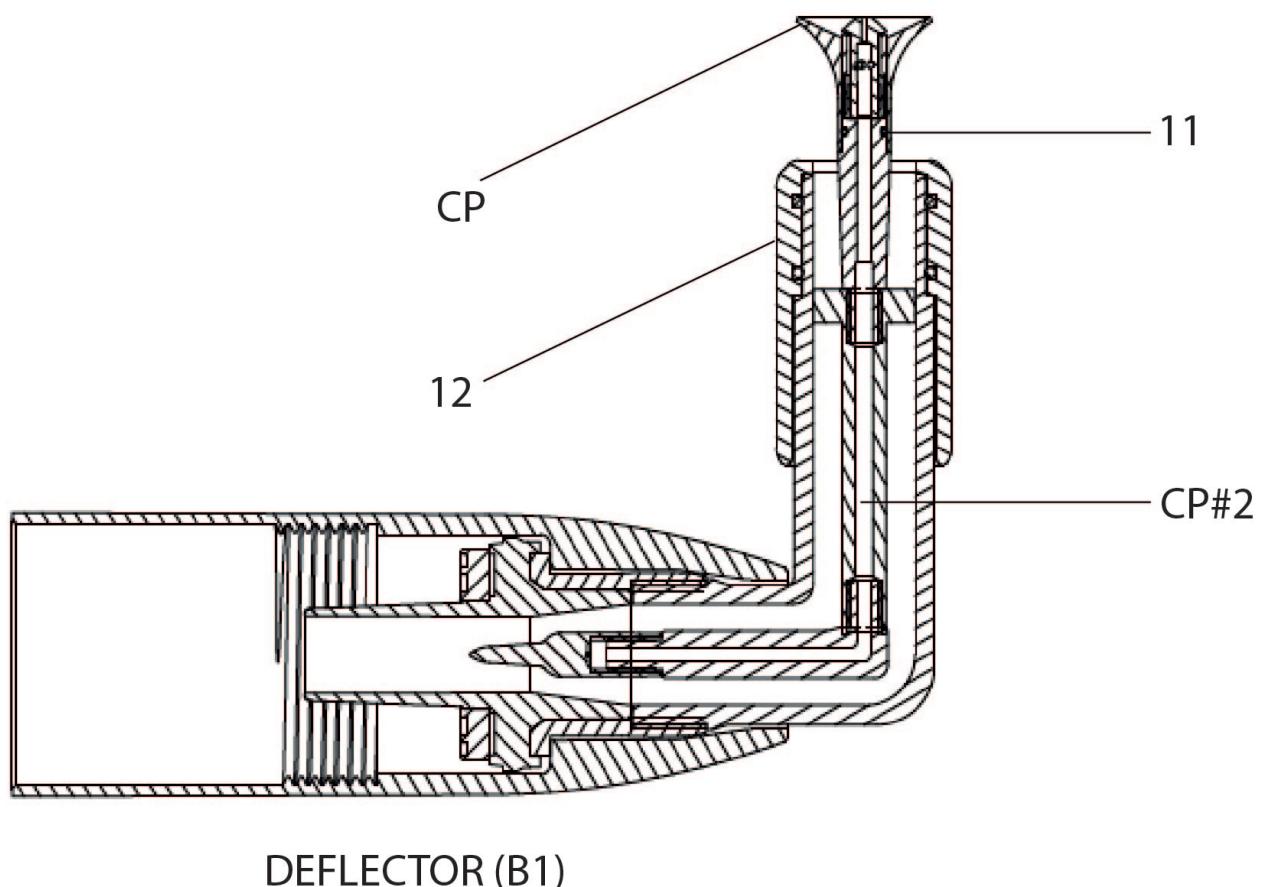
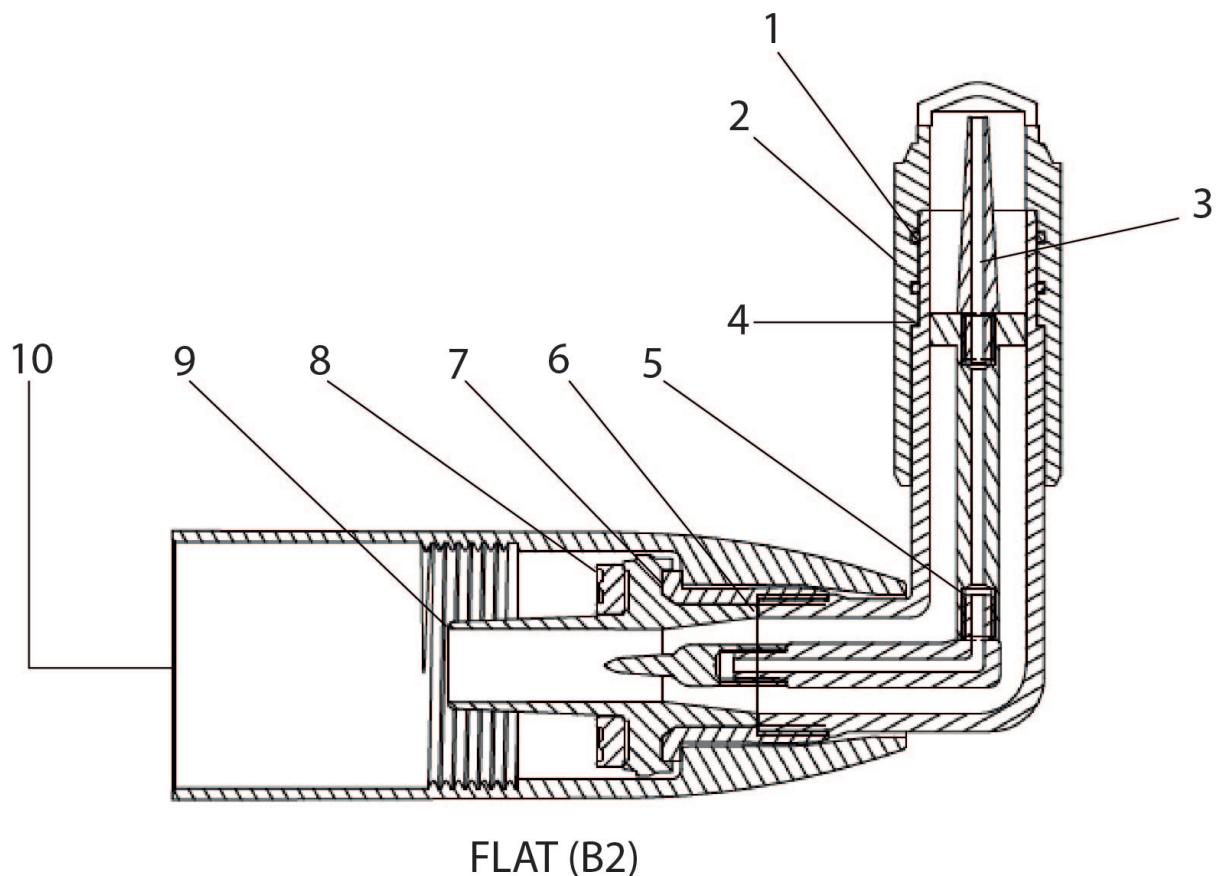
Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
A1	B07EXT031D	E-GUN+3 150 MM EXTENSION HEAD GROUP - DEFLECTOR	N/A	N/A
A2	B07EXT032F	E-GUN+3 150 MM EXTENSION HEAD GROUP - FLAT	N/A	N/A
B1	B07EXT032D	E-GUN+3 250 MM EXTENSION HEAD GROUP - DEFLECTOR	N/A	N/A
B2	B07EXT032F	E-GUN+3 250 MM EXTENSION HEAD GROUP - FLAT	N/A	N/A
C1	B07EXT033D	E-GUN+3 400 MM EXTENSION HEAD GROUP - DEFLECTOR	N/A	N/A
C2	B07EXT033F	E-GUN+3 400 MM EXTENSION HEAD GROUP - FLAT	N/A	N/A
1	TRTM08282	E-GUN+3 CARBON RING Ø31	✓	✓
2	B10631003D	E-GUN+3 ELECTRODE BODY W/RESISTANCE	N/A	N/A
3	ENEM01049	E-GUN ANGLED-EXTENSION ELECTRODE FEMALE PART	N/A	N/A
4	*	EXTENSION ELECTRODE (MALE)	N/A	N/A
4.1	TRTM03109	150 MM EXTENSION ELECTRODE (MALE)	N/A	N/A
4.2	TRTM03113	250 MM EXTENSION ELECTRODE (MALE)	N/A	N/A
4.3	TRTM03108	400 MM EXTENSION ELECTRODE (MALE)	N/A	N/A
5	TRTM01049	E-GUN+3 ANGLED-EXTENSION ELECTRODE FLAT CAP	✓	✓
6	IZOR01007	O-RING Ø18X1,5	N/A	N/A
7	TRTM02017	EXTENSION ELECTRODE RESISTOR SHAFT ADDITIONAL PART	N/A	N/A
8	TRTM02018	EXTENSION ELECTRODE RESISTOR SHAFT T PART	N/A	N/A
9	ENEM01048	EXTENSION ELECTRODE RESISTOR SHAFT FRONT T PART	N/A	N/A
10	TRTM01022	E-GUN+3 FLAT HEAD GROUP CONICAL ISOLATOR	N/A	N/A
11	TRTM03111	E-GUN+3 EXTENSION TYPE TIGHTENING NUT	N/A	N/A
12	B07524502	E-GUN HEAD GROUP SHAFT SET W/ DEFLECTOR	N/A	✓
13	*	DEFLECTOR	N/A	N/A
13.1	ENEM01044	DEFLECTOR Ø16	✓	✓
13.2	ENEM01045	DEFLECTOR Ø20	✓	✓
13.3	ENEM01046	DEFLECTOR Ø24	✓	✓
14	ELON01012	RESISTANCE 15 MΩ 1/4 W (for every 150 mm)	N/A	N/A
15	TRTM01050	EXTENSION-ANGLED ELECTRODE DEFLECTOR CAP	N/A	✓



ANGLED HEAD GROUPS DEFLECTOR & FLAT



## ANGLED HEAD GROUPS DEFLECTOR &amp; FLAT



Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
A1	B07EXT034D	E-GUN+3 45° ANGLED HEAD GROUP - DEFLECTOR	N/A	N/A
A2	B07EXT034F	E-GUN+3 45° ANGLED HEAD GROUP - FLAT	N/A	N/A
1	ENEM01051	E-GUN 45° ANGLED ELECTRODE MALE PART	N/A	N/A
2	IZOR01007	O-RING Ø18X1,5	N/A	N/A
3	TRTM01022	FLAT HEAD GROUP CONICAL ISOLATOR	N/A	N/A
4	ENEM01048	ANGLED EXTENSION ELECTRODE RESISTOR SHAFT FRONT T PART	N/A	N/A
5	ENEM01050	E-GUN 45° ANGLED SHAFT	N/A	N/A
6	ENEM01049	ANGLED EXTENSION ELECTRODE FEMALE PART	N/A	N/A
7	TRTM08282	E-GUN+3 Ø31 CARBON RING	N/A	N/A
8	B10631003D	E-GUN+3 ELECTRODE BODY W/RESISTANCE	N/A	N/A
9	TRTM03114	E-GUN+3 ANGLED TYPE TIGHTENING NUT	N/A	N/A
10	TRTM01049	E-GUN+3 ANGLED-EXTENSION ELECTRODE FLAT CAP	N/A	N/A
11	B07524502	E-GUN HEAD GROUP SHAFT SET W/ DEFLECTOR	N/A	✓
12	TRTM01050	E-GUN+3 EXTENSION-ANGLED ELECTRODE DEFLECTOR CAP	N/A	✓
Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
B1	B07EXT035D	E-GUN+3 90° ANGLED HEAD GROUP - DEFLECTOR	N/A	N/A
B2	B07EXT035F	E-GUN+3 90° ANGLED HEAD GROUP - FLAT	N/A	N/A
1	IZOR01007	O-RING Ø18X1,5	N/A	N/A
2	TRTM01049	E-GUN+3 ANGLED-EXTENSION ELECTRODE FLAT CAP	N/A	N/A
3	TRTM01022	FLAT HEAD GROUP CONICAL ISOLATOR	N/A	N/A
4	ENEM01048	ANGLED EXTENSION ELECTRODE RESISTOR SHAFT FRONT T PART	N/A	N/A
5	ENEM01052	E-GUN 90° ANGLED ELECTRODE MALE PART	N/A	N/A
6	ENEM01053	E-GUN 90° ANGLED SHAFT	N/A	N/A
7	ENEM01049	E-GUN ANGLED EXTENSION ELECTRODE FEMALE PART	N/A	N/A
8	TRTM08282	E-GUN+3 Ø31 CARBON RING	N/A	N/A
9	B10631003D	E-GUN+3 ELECTRODE BODY W/RESISTANCE	N/A	N/A
10	TRTM03114	E-GUN+3 ANGLED TYPE TIGHTENING NUT	N/A	N/A
11	B07524502	E-GUN HEAD GROUP SHAFT SET W/ DEFLECTOR	N/A	✓
12	TRTM01050	E-GUN+3 EXTENSION-ANGLED ELECTRODE DEFLECTOR CAP	N/A	✓
CP	*	DEFLECTOR	N/A	N/A
1	ENEM01044	DEFLECTOR Ø16	✓	✓
2	ENEM01045	DEFLECTOR Ø20	✓	✓
3	ENEM01046	DEFLECTOR Ø24	✓	✓
CP#2	ELON01012	RESISTANCE 15 MΩ 1/4 W (for every 150 mm)	N/A	N/A

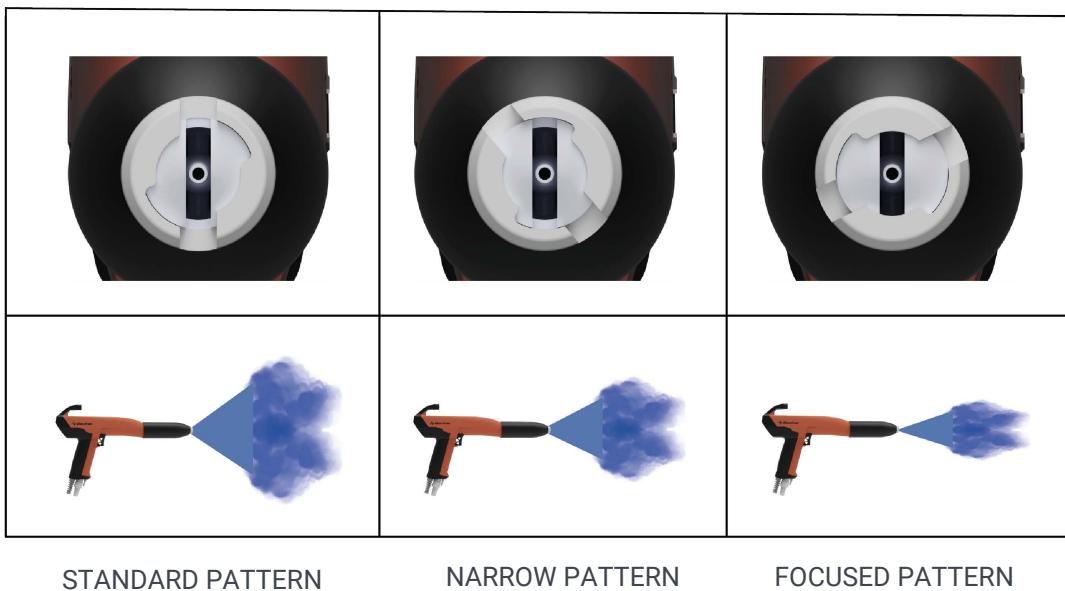
**Note:** CP means Common Parts. The deflector group and resistance used in this listing is the same as the extension group. It is not shown again in the images.

**FLAT TO DEFLECTOR HEAD GROUP REPLACEMENT IN 6 STEPS****1.****2.****3.****4.****5.****6.**

**Note:** The steps shown can be applied to only "complete set" kits.



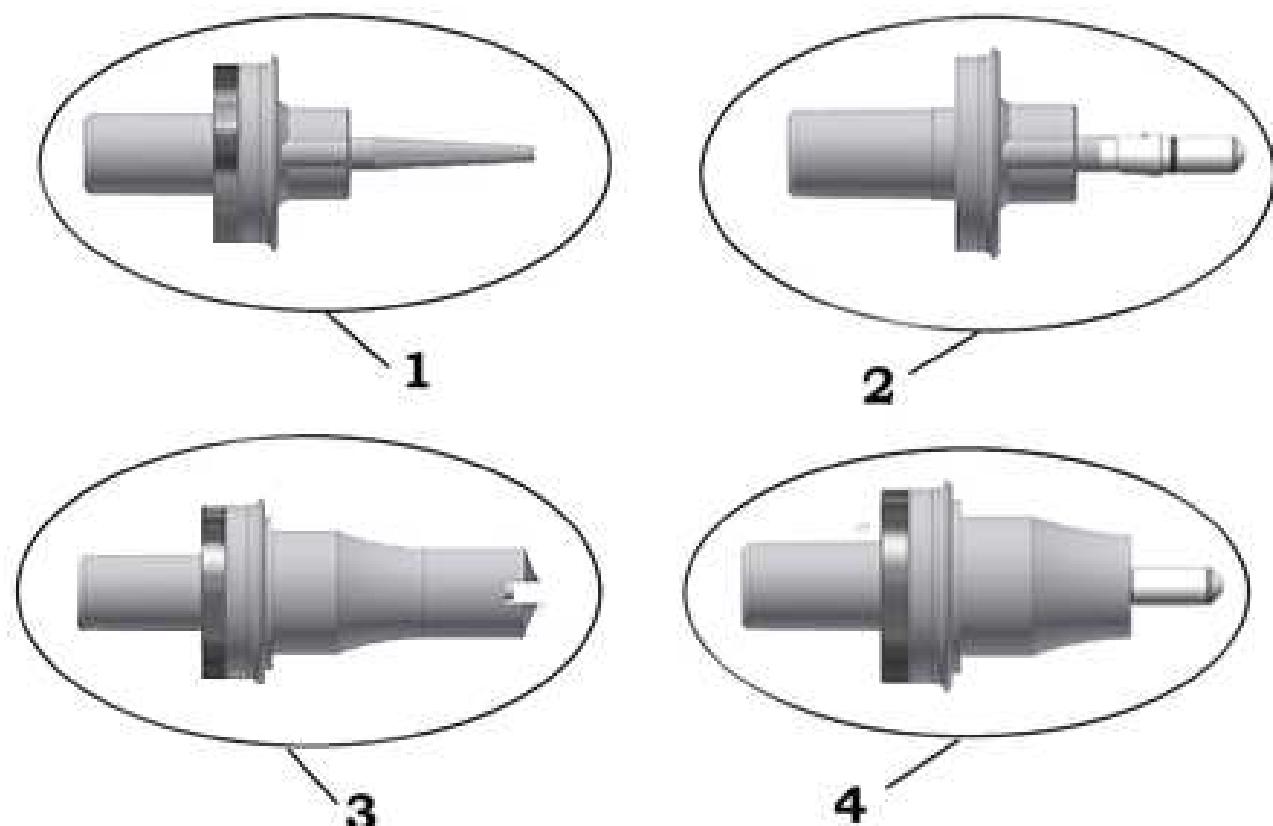
Part No	Order Code	Part Name	Wearing Part
1	TRTM03112	E-GUN+3 FLAT CAP PATTERN ADJUSTER	N/A
2	B07EGC200+3	E-GUN+3 C MANUAL GUN	N/A
3	B07EGC300+3	E-GUN+3 C3 AUTOMATIC GUN (Not Shown)	N/A
4	B07EGC100+3	E-GUN+3 C1 MANUAL GUN (Not Shown)	N/A



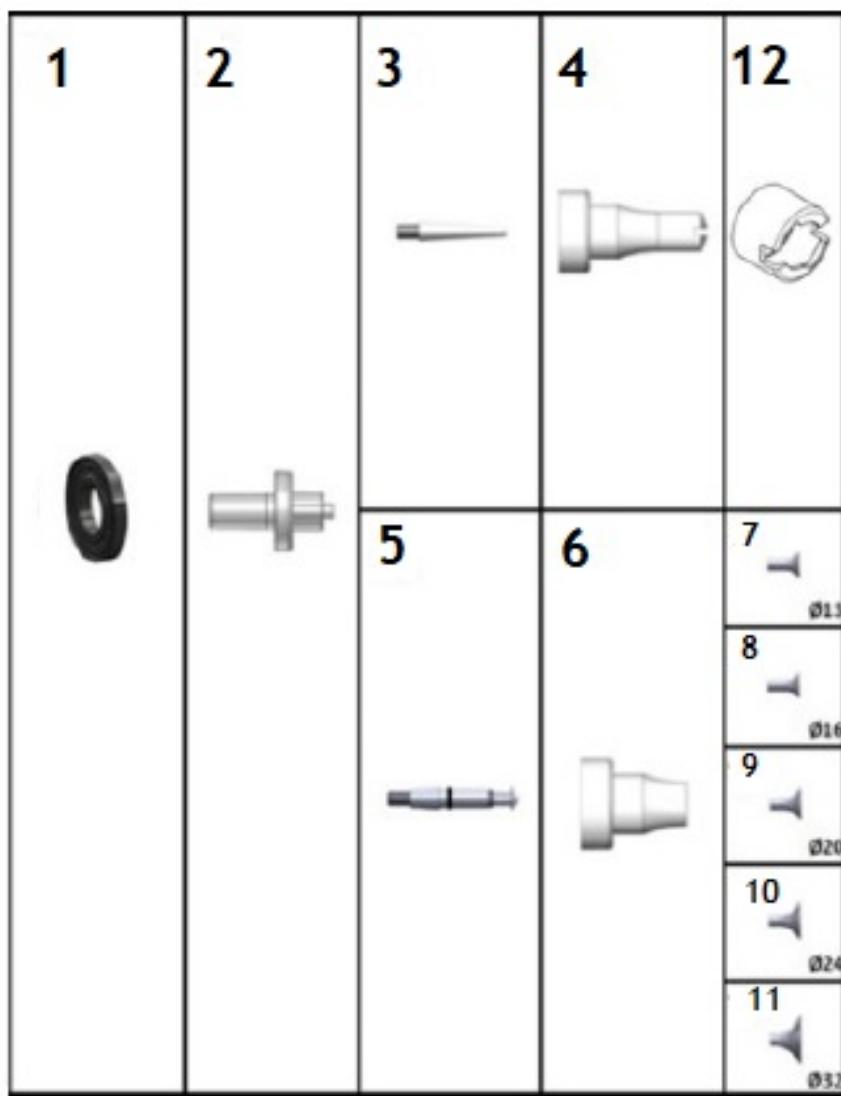
The Pattern adjuster attached to the tip of the manual or automatic gun ensures that the paint coming out of the gun is formed in a narrowed form. It is used by rotating and has three positions.

1. Standard Pattern
2. Narrow Pattern
3. Focused Pattern

The pattern adjuster ensures that the powder paint reaches the deepest points of the recessed parts. It is recommended for use in coating parts with recesses or complex geometry.



Part No	Order Code	Part Name	Wearing Part
1	B07531006	E-GUN+3 FLAT ELECTRODE GROUP	N/A
2	B07531007	E-GUN+3 ELECTRODE GROUP WITH DEFLECTOR	N/A
3	B07531002	E-GUN+3 FLAT HEAD GROUP	N/A
4	B07531008	E-GUN+3 HEAD GROUP WITH DEFLECTOR	N/A



Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	TRTM08282	E-GUN+3 Ø35 CARBON RING	✓	✓
2	B10631003D	<b>E-GUN+3 ELECTRODE BODY</b>	✓	✓
3	TRTM01022	E-GUN+3 FLAT HEAD GROUP CONICAL INSULATOR	✓	✓
4	TRTM01046	E-GUN+3 FLAT CAP	✓	✓
5	B07524503	<b>E-GUN+3 DEFLECTOR HEAD ASSEMBLY SHAFT SET</b>	✓	✓
6	TRTM01048	E-GUN+3 DEFLECTOR CAP	✓	✓
7	TRTM03013	E-GUN+3 Ø13 DEFLECTOR	✓	✓
8	ENEM01044	E-GUN+3 Ø16 DEFLECTOR	✓	✓
9	ENEM01045	E-GUN+3 Ø20 DEFLECTOR	✓	✓
10	ENEM01046	E-GUN+3 Ø24 DEFLECTOR	✓	✓
11	ENEM01067	E-GUN+3 Ø32 DEFLECTOR	✓	✓
12	TRTM03112	E-GUN+3 FLAT CAP PATTERN ADJUSTER	✓	✓

## 7. Service and Maintenance Table

DATE	MAINT. TYPE --Weekly --Yearly --Serviceearly	MAINT. OR SERVICE PERSONNEL	PROCEDURE CHANGED PARTS NOTES	CONTROL SUPERVISOR

## 8. Product Life and Warranty

### 1. Product Life

- The economic life of the gun is approximately 10 years.
- This product life is highly dependent on the periodic maintenances and spare part changes in a timely manner. Improper maintenance will lead to lower product life.
- SİSTEM TEKNİK A.Ş. warrants supplying the needed service and the spare parts for the entire product life.

### 2. Warranty and Warranty Conditions

- The gun is warranted for production and parts failure for 2 (two ) years.
- Spare parts that are changed from the warranty are free-of-charge.
- The parts that are supplied in the system which are not produced by SİSTEM TEKNİK A.Ş. are warranted with their own manufacturers and their own conditions.
- SİSTEM TEKNİK A.Ş. will not be held responsible for the improper usage of the machine or any unauthorized usage. These are not in the warranty.

### 3. Operating Conditions

- Read the user manual before using the gun.
- Only legally allowed people can operate the gun.
- Only trained and authorized people can operate the gun.
- SİSTEM TEKNİK A.Ş.'s suggested spare parts should be used at all times.
- Proper maintenance has to be done and the spare parts has to be changed in a timely manner
- The operational safety has to be assured by the customer; the operators who are not capable of working under safety rules shouldn't be operating the Control Unit.
- All the suggestions and warnings in this manual have to be carefully considered and applied.

**Merkez Ofis**

PERPA Tic. Mer. B-Blok Kat:2 No:65  
34385, Okmeydanı – İSTANBUL/TÜRKİYE

Telefon: +90 (212) 222 23 45  
Mail: [info@electron.com.tr](mailto:info@electron.com.tr)

**Fabrika**

İTOB Org. San. Bölgesi 10010 Sk. No:10  
35470, Menderes – İZMİR/TÜRKİYE

Telefon: +90 (232) 799 02 32  
Fax: +90 (232) 799 02 42