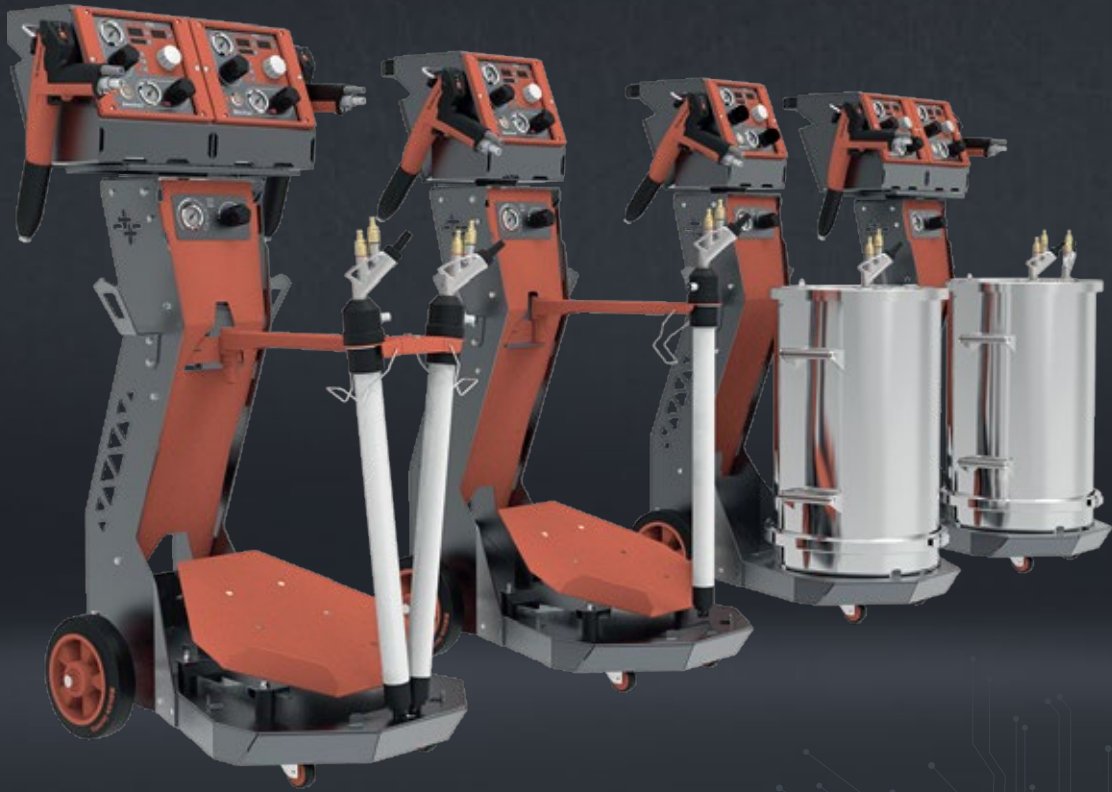




POWDER COATING EQUIPMENT USER'S MANUAL

E-COAT+3 PRO

SERIES



Check our
product
online

electron.com.tr + info@electron.com.tr

 **Electron**

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ITOB Menderes

Izmir TURKEY

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Rev.02-2020

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1. Safety Regulations

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.

1.1. Safety Symbols

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.



DANGER!
Electrical and moving parts pose a hazard.
Possible Consequences: Death or serious injury.



WARNING!
Improper use will damage the device or cause malfunction.
Possible consequences: Minor injuries or damage to equipment.

1.2. Conformity Of Use

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.

Explosion Protection Class of E-COAT+3 PRO Controller Unit

Explosion Protection	Protection Type	Temp Class
  II 3(2)D	IP54	

Explosion Protection Class of E-GUN+3 C2 Powder Paint Gun

Explosion Protection	Protection Type	Temp Class
  II 2 D	IP64	

Explosion Protection Class of E-GUN+3 C3 Powder Paint Gun

Explosion Protection	Protection Type	Temp Class
  II 2 D	IP54	

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

1.3. Technical Safety Regulations for Stationary Electrostatic Powder Spraying Equipment

1.3.1. General Information

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.



WARNING!

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.

1.3.2. Consciously Working Safe

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.

1.3.3. Safety Regulations for the Operating Firm and/or Personnel

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.

1.3.4. Special Types of Hazard

1. **Power:** All the high voltage equipment should be unplugged before opened. This is a huge life risk thus it has to be taken under great care.
2. **Powder:** Powder/air mixtures could be ignited by sparks. Sufficient ventilation is a must while using powder spraying equipment. Powder, which is not swept from the floor creates risky environment.
3. **Static Charges:** These could result in the following: Charges to people, electric shocks, sparks. Charging of objects has to be avoided.
4. **Grounding:** All electricity conducting parts and machinery in the workplace must be earthed. Please connect a ground wire 1.5 meters before the entrance of the cabinet, in the middle of the cabinet and 1.5 meters after the exit of the cabinet. The grounding resistance must amount to a maximum of 1 MOhm resistance has to be tested regularly. The appropriate devices must be kept in the workplace for regular grounding checks.
5. **Compressed Air:** Compressed air could be created after long pauses of the equipment and this creates risk of pneumatic hose damage or uncontrolled release and improper use of compressed air. Compressed air should be drained properly.
6. **Crushing and Cutting:** There might be moving parts while operation (e.g. Conveyor Belt, Reciprocator). The operator must be trained to maintain the area safety and local security regulations.
7. **Exceptional Circumstances:** Local conditions must be met at all costs. Additional measures such as barriers can be used to prevent unauthorized access.
8. **Conversions and Modifications to the Equipment:** All conversions and must be asked to Sistem Teknik prior to the process and no process should be done without Sistem Teknik's permission. This is essential for the equipment safety and conformity. Powder coating equipment should never be used if damaged; these parts should be changed immediately with the original Sistem Teknik replacement. Other replacements then Sistem Teknik original equipment does not conform the guarantee, thus the guarantee will no longer be valid. Equipment repairs must be done only by specialist or at Sistem Teknik verified shops.

1.3.5. Safety Requirements for Electrostatic Powder Coating

1. All the equipment used for powder coating is dangerous unless the instructions are not conformed.
2. Every electrostatic conductive part must be earthed within the 5 meter radius from the equipment.
3. The floor of the coating area should conduct electricity (Concrete is generally a conductive surface, check with your building project for more info)
4. The users should wear electricity conducting footwear.
5. The guns are earthed thus you must use them with your bare hands. If gloves are going to be used, make sure that they conduct electricity.
6. Grounding cable must be connected to the grounding screw of the electrostatic powder spraying hand appliance. It should have a good connection with the booth, hopper and conveyor chain (if used).
7. E-COAT+3 PRO Device must be switched off while the hand gun is being cleaned.
8. The grounding must be checked every week. Remember that the grounding resistance must be 1 MOhm at a maximum.
9. The E-COAT+3 PRO equipment should only be switched once the booth is working in proper conditions. If the booth malfunctions, E-COAT+3 PRO should be turned off.
10. At nozzle changes, the E-COAT+3 PRO device should be shut down.
11. Only use spare parts / attachments and accessories from Sistem Teknik's original parts page. This ensures the safety of the equipment and conformity of use.
12. Cleaning agents creates the risk of hazardous fumes. Please check the manufacturer's manual about more information about the cleaning agents if they are used in the site.
13. If there is any damage on the powder coating equipment or the spray gun, operators should stop using it.
14. Especially make sure that the environmental regulations and the manufacturer's instructions are being conformed while disposing the powder lacquer and cleaning agents.
15. Repairs have to be carried out via specialists of Sistem Teknik trained personnel and never to be done in the operating area under any circumstance.
16. Dangerous dust concentration levels should be avoided in powder spraying areas. There must be sufficient technical ventilation available (e.g. booth ventilation) to prevent a dust concentration of more than 50% of the lower explosion limit (UEG = max. permissible powder/air concentration). If the UEG is not known then a value of 10g/m³ should be used.

EN European Standards

2014/34/EU	The approximation of the laws of the Member States relating to apparatus and safety systems for their intended use in potentially explosive atmospheres
EN 12100-1 EN 12100-2	Machine safety
EN IEC 60079-0	Electrical equipment for locations where there is danger of explosion
EN 50050-2	Electrical apparatus for potentially explosive atmospheres electrostatic hand-held spraying equipment
EN 50177	Stationary electrostatic spraying equipment for flammable coating powder
EN 12981	Coating plants - spray booths for application of organic powder coat-ing material - safety requirements
EN 60529	IP-Type protection: contact, foreign bodies and water protection for electrical equipment
EN 60204	VDE regulations for the setting up of high voltage electrical machine tools and processing machines with mains voltages up to 1000 V

1.4. Product Specific Safety

If there is an installation work that will be done by the customer, the local regulations have to be considered.

The plant must be checked for any type of foreign objects inside the booth or in ducting, input and exhaust air before start up.

All equipment must be grounded according to the local regulations before start up as well.

1.E-COAT+3 PRO Automatic Bare Kit



- E-GUN+3 C3
- E-GUN C3 Automatic Gun Cable (12 m)
- E-FEED+3 INJ
- E-COAT+3 Pro
- Regulator and Air Distribution Unit
- Hose connection accessories

2.E-COAT+3 PRO Bare Kit



- E-GUN+3 C2
- E-FEED+3 INJ
- E-COAT+3 Pro
- Regulator and Air Distribution Unit
- Hose connection accessories

3. E-COAT+3 PRO H & PRO H DUAL



- E-GUN+3 C2
- E-FEED+3 INJ
- E-COAT+3 Pro
- E-HOPP+3 50
- E-COAT+3 Mobile Trolley w/ Air Distribution Unit and Fluidization Control
- Hose connection accessories

4. E-COAT+3 PRO M & PRO M DUAL



- E-GUN+3 C2
- E-FEED+3 INJ
- E-COAT+3 Pro
- E-COAT+3 Multicolor Unit w/ Vibratory Box Holder and Suction Tube
- Hose connection accessories

1.5. Conformity Between Products

Electron E-COAT+3 can be used with:

- E-GUN+3 C2
- E-GUN+3 C3
- E-FEED V2 / E-FEED+3 INJ

Electron E-GUN+3 C2 can be used with:

- E-COAT+3 PRO
- E-COAT Basic
- E-FEED V2 / E-FEED+3 INJ
- FastCorona™ Manual



Electron E-GUN+3 C3 can be used with:

- E-COAT Master P
- E-COAT+3 PRO
- E-FEED V2 / E-FEED+3 INJ
- FastCorona™ Auto

2. General Information About E-COAT+3 PRO

2.1. Technical Data

Electrical Data

E-COAT+3 PRO Control Unit	
Nominal Input Voltage	100-240 VAC
Operating Frequency	50-60 Hz
Input Power	60 VA
Gun Nominal Output Voltage	Max. 20 Vp-p
Gun Nominal Output Current	Max. 1,5 A
Auxiliary Output Type	24 VDC/max. 10W, 100-240 VAC/max.100W
Purge Output Type	24 VDC, max. 10W
Protection Class	IP54
Max. Operating Surface Temperature	85 °C
Explosion Protection	  II 3(2)D

Pneumatic Data

E-COAT+3 PRO Control Unit	
Compressed Air Connection	8 mm
Input Pressure and Capacity	5,5-7,0 bar & 150-200 lt/dk
Max. Water Vapor in Compressed Air	1,4 g/m ³
Max. Oil Vapor Content in Compressed Air	0,12 mg/m ³

Weight

E-GUN+3 C2 Manual Powder Coating Gun	
Compressed Air Weight	510 g

Powder Paint Output References

E-COAT+3 PRO Control Unit	
Powder Paint Type	Epoxy / Polyester
Powder Hose Type	Double Carbon De charge Connection Antistatic Hose
Powder Hose Length	7 m
Powder Hose Diameter Ø	11 mm
Powder Air Nozzle Diameter Ø	1,5 mm

E-COAT+3 PRO with E-FEED+3 INJ

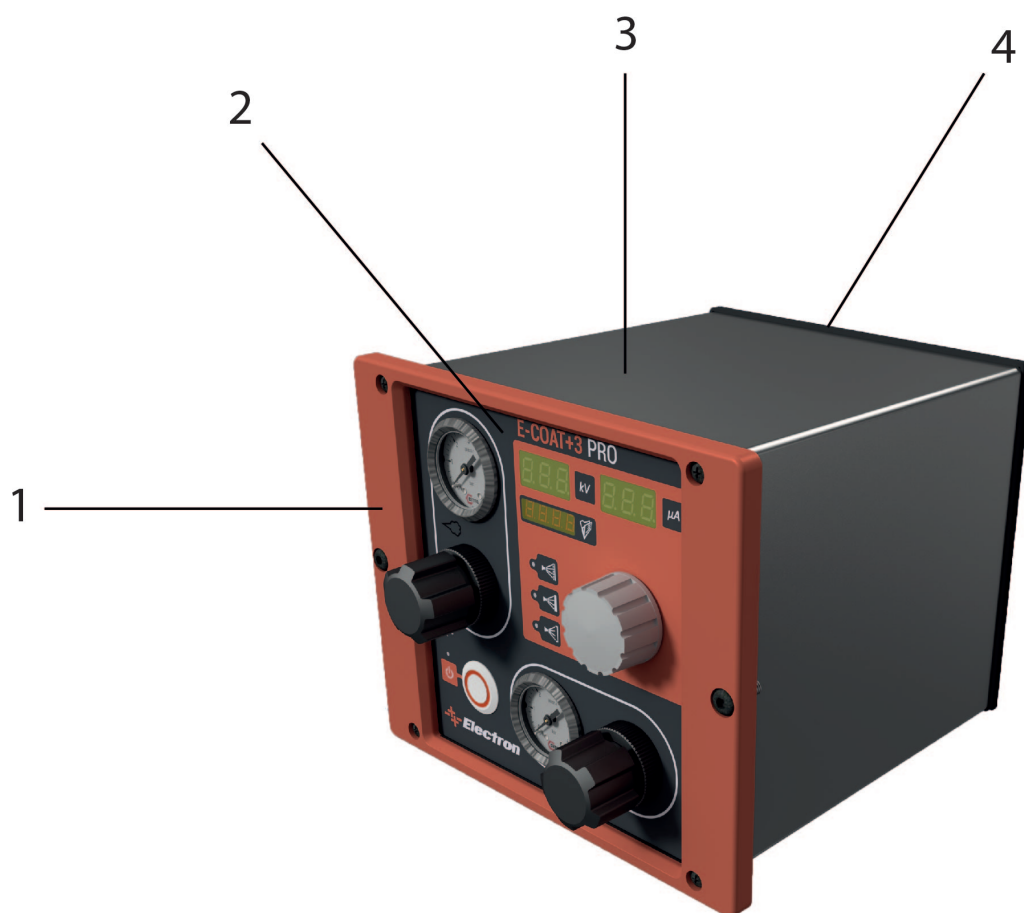
E-COAT+3 PRO Control Unit	
Pressure	**Powder Output gr/min
0,1 MPa (1 BAR)	35
0,15 MPa (1,5 BAR)	155
0,2 MPa (2 BAR)	320
0,3 MPa (3 BAR)	420

**Powder paint flow rate is related to the particle size and other properties of the powder paint. Flow values are not guaranteed for all types of paint

E-COAT+3 PRO Air Flow Rates

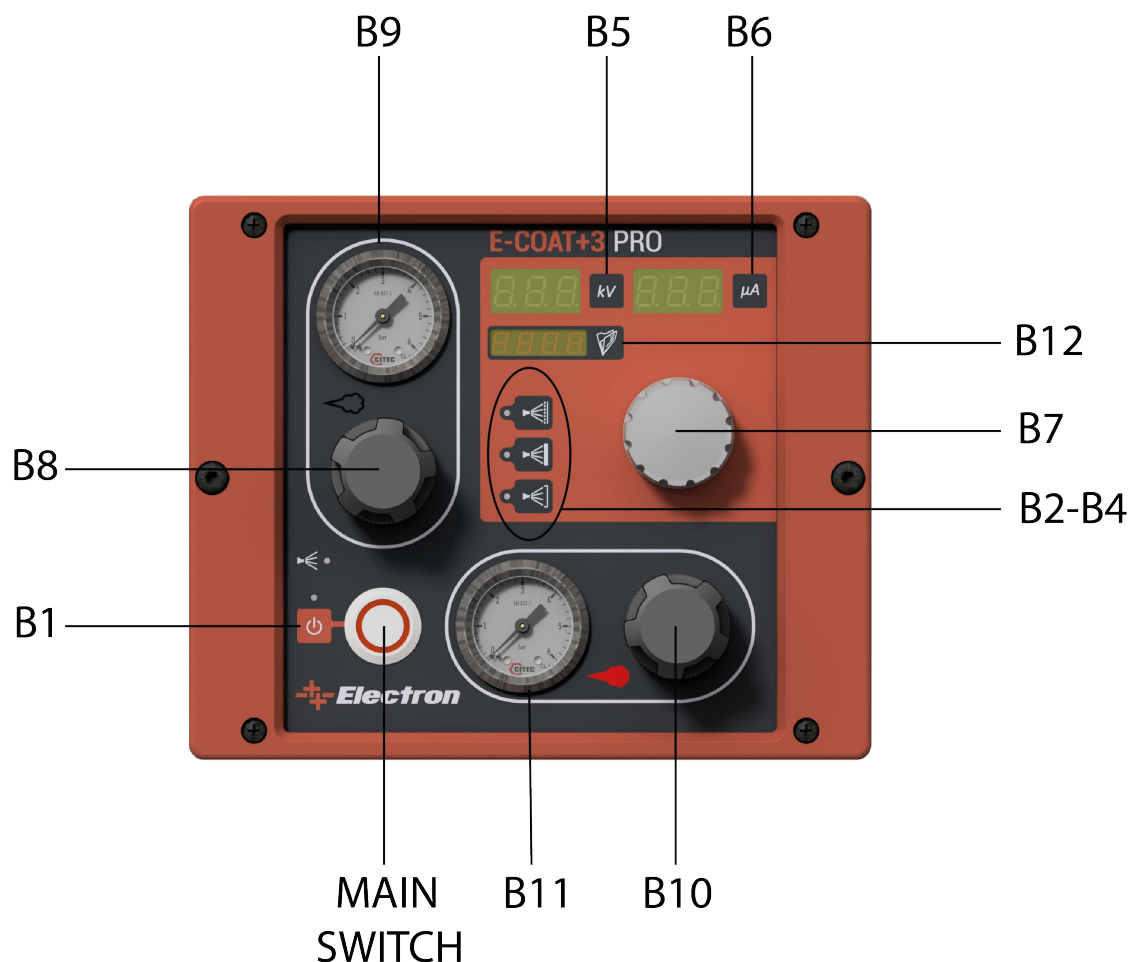
E-COAT+3 PRO Control Unit	
Nozzle Air	0-16 lt/min (2 lt/min Factory Setting)
Supplementary Air	0-200 lt/min
Conveying Air	0-200 lt/min
Total Air	0-400 lt/min

2.2. General View



- 1) Front Panel
- 2) Display and Control Buttons
- 3) Casing
- 4) Back Panel and I/O

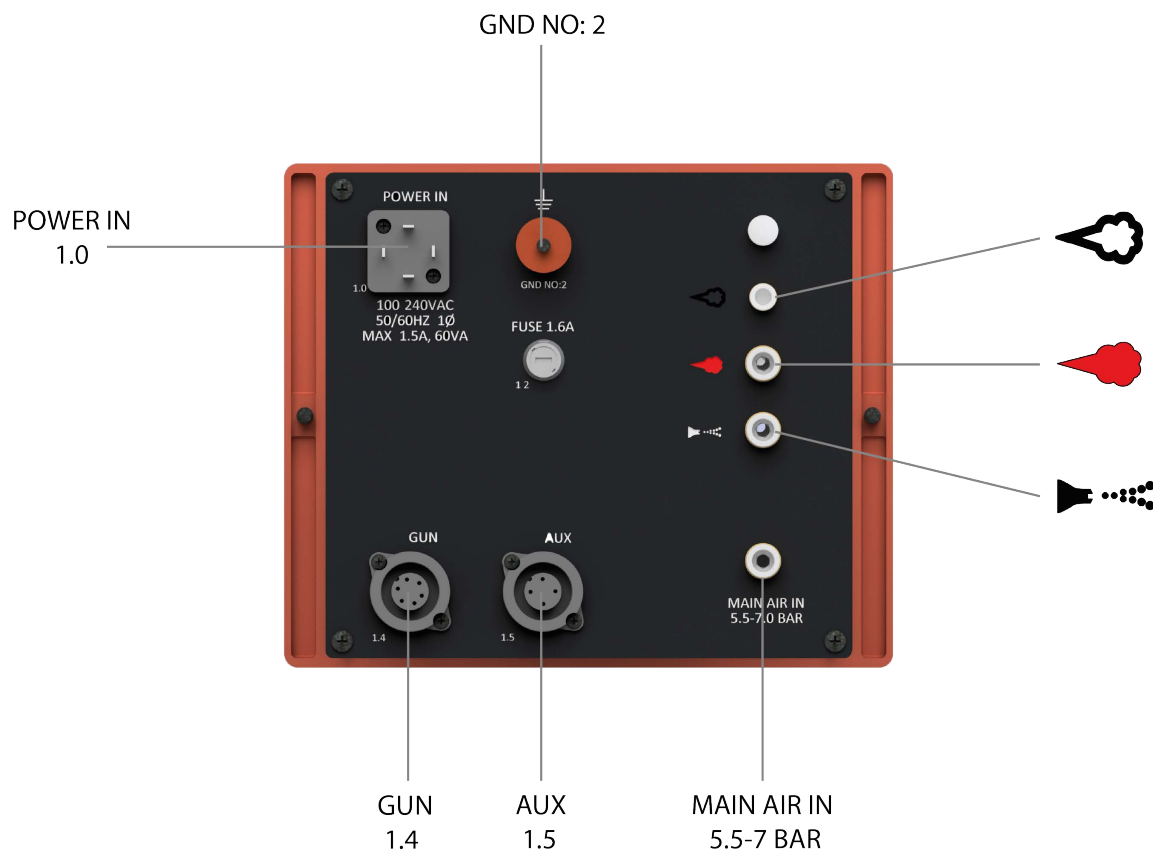
2.3. Front Panel and Input Buttons







Front Panel Connections

Button	Definition
B1	Vibration Motor(Only Multicolor) Active/Passive Button
B2	Automatic Program 1
B3	Automatic Program 2
B4	Automatic Program 3
B5	kV Adjustment Button
B6	μA Adjustment Button
B7	Rotary Adjustment Button
B8	Supplementary Air Adjustment Regulator
B9	Supplementary Air Manometer
B10	Powder Paint Adjustment Regulator
B11	Powder Paint Air Manometer
B12	Recipe Selection Button
MAIN SWITCH	Main Power Switch

2.4. Back Panel and Connections



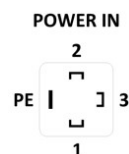
Back Panel Connections

Connection	Function
1.0 POWER IN	MAIN POWER CONNECTION (100-240VAC, 50-60Hz)
1.2 Fuse 1.6A	Glass Fuse Holder 1.6A
1.4 Gun	Gun Cable Connection
1.5 AUX	Fluidization Unit/Multicolor Unit Connection
MAIN AIR IN 5.5-7 BAR	Main Pressured Air Connection (5,5-7,0 Bar, Ø8 Hose)
	Nozzle Air Connection (Black Ø6 Hose)
	Supplementary Air Connection (Blue Ø8 Hose)
	Powder Air Connection (Red Ø8 Hose)
	Earth Cable Connection

Warning: AUX input cover should be closed if there is no

connection. PIN Connection

- 1) Phase (100-240 VAC)
- 2) Neutral
- 3) Trigger (Phase Applied-Only Automatic Mode)
- PE) Grounding



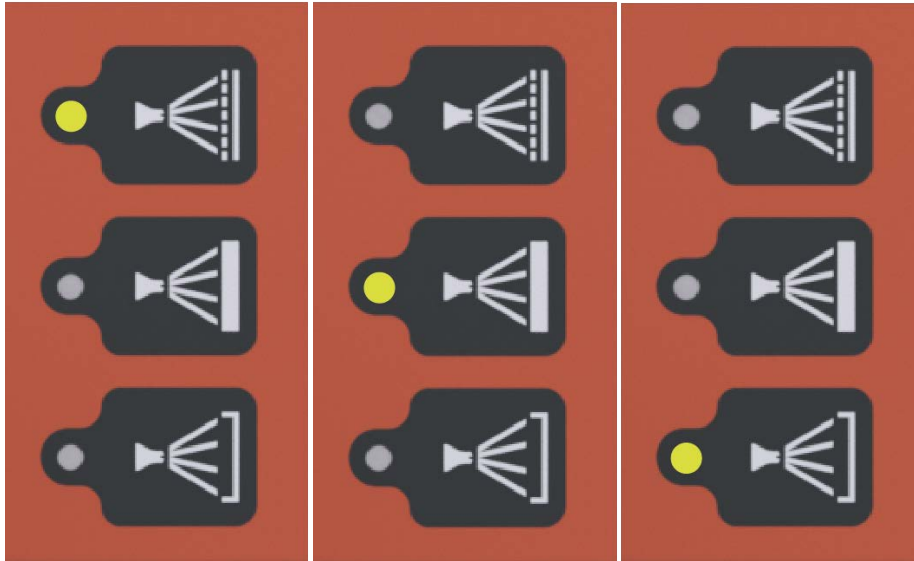
2.5. General Instructions

Usage Types

a. Automated Recipe Working Mode

This type of usage allows the customer to work with custom made recipes as well the three predefined recipes stated below:

1. Coating on Straight Faced Materials
2. Coating on Coated Materials
3. Coating on Notched Surfaces



Predefined Recipe Buttons

Predifined Recipe Name	High Voltage (kV)	Output Current (μ A)
Coating on Straight Faced Material	100	100
Coating on Coated Material	100	10
Coating on Notched Surfaces	100	22

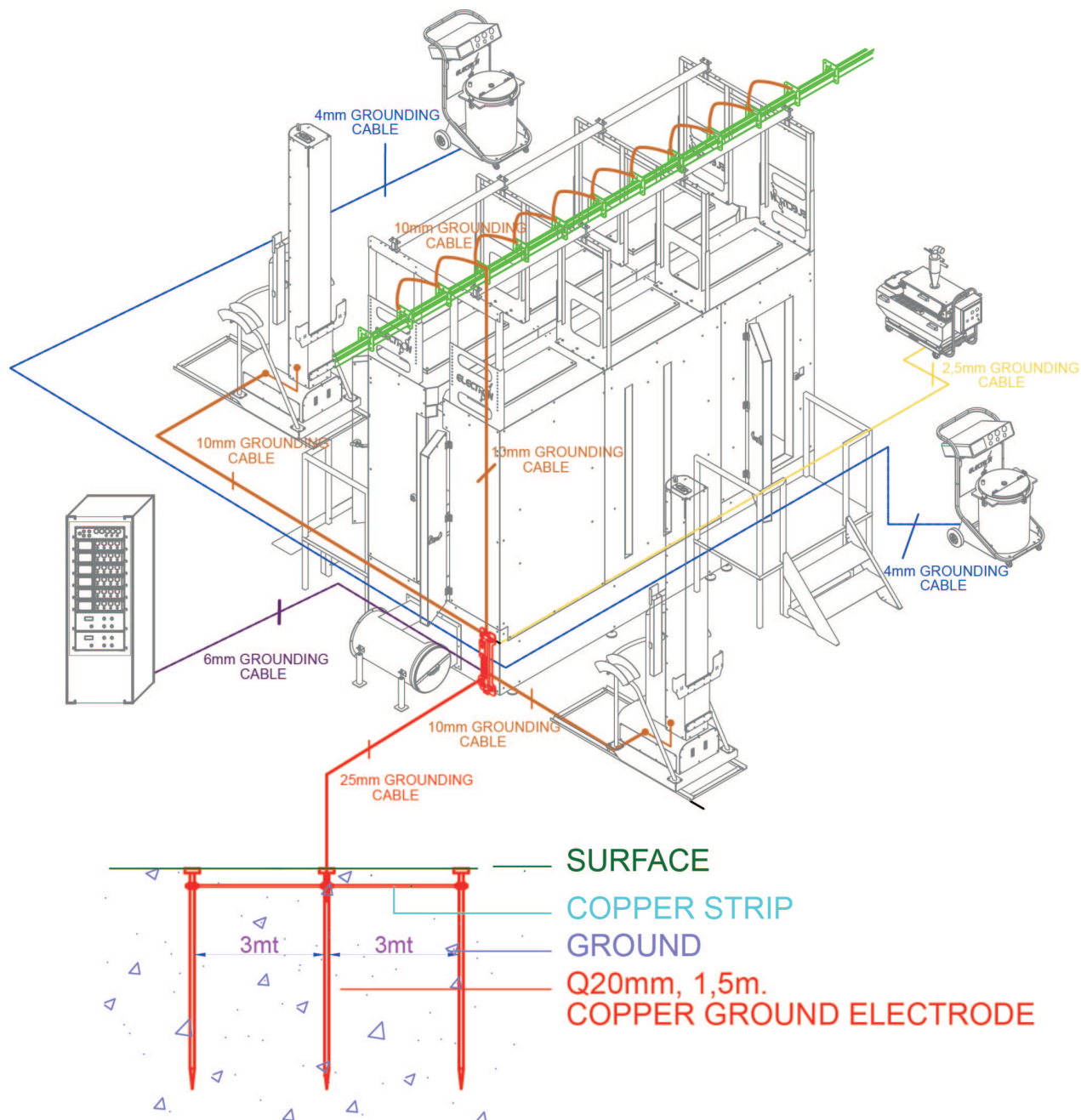
a. Automated Recipe Working Mode










In this working principle, the user can save their own working parameters and change them. There can be 50 recipes starting from P01 to P50, three of which P01-02-03 are factory predefined recipes. These predefined recipes are explained in this manual. Users can manually define 47 different recipes of their choice.

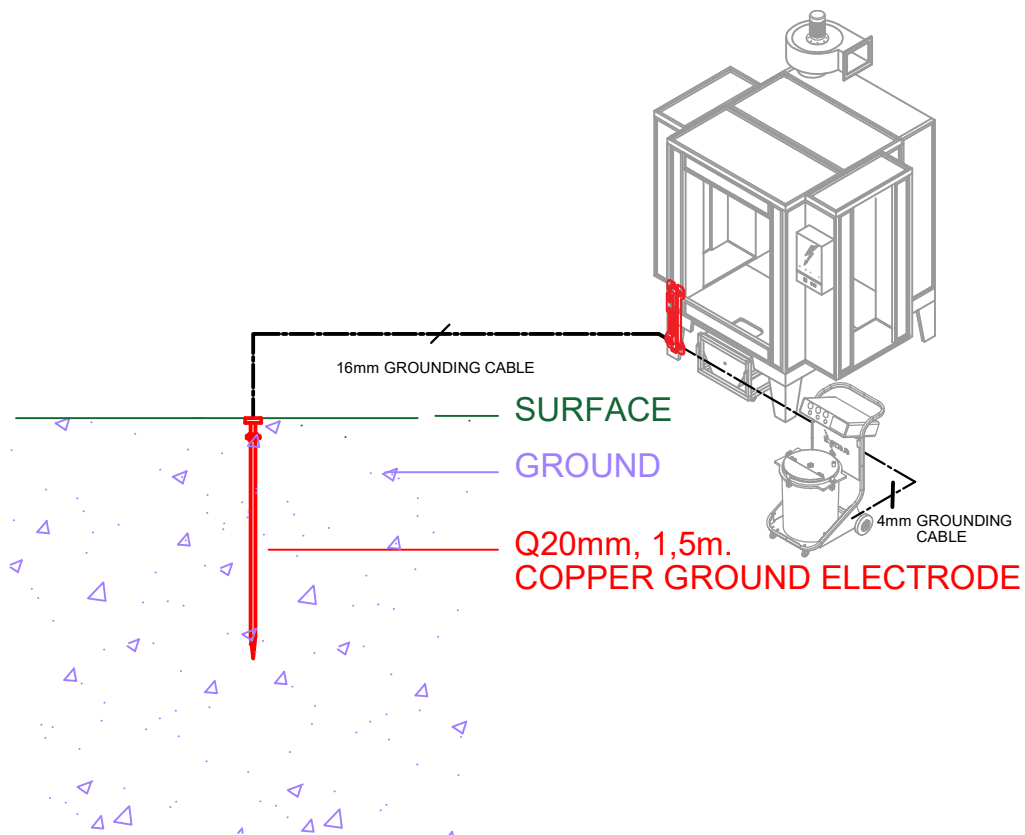


3. Start Up

3.1. Grounding



DEVICE QUANTITY	SPIKE AMOUNT	CABLE THICKNESS
 ≤ 4	1	16 mm ²
4 <  ≤ 8	2	16 mm ²
8 <  ≤ 12	3	25 mm ²
12 <  ≤ 16	4	25 mm ² +16 mm ²
16 <  ≤ 20	5	25 mm ² +16 mm ²
20 <  ≤ 24	6	25 mm ² +25 mm ²
24 <  ≤ 28	7	25 mm ² +25 mm ²
28 <  ≤ 32	8	25 mm ² +25 mm ²
32 <  ≤ 36	9	50 mm ² +25 mm ²

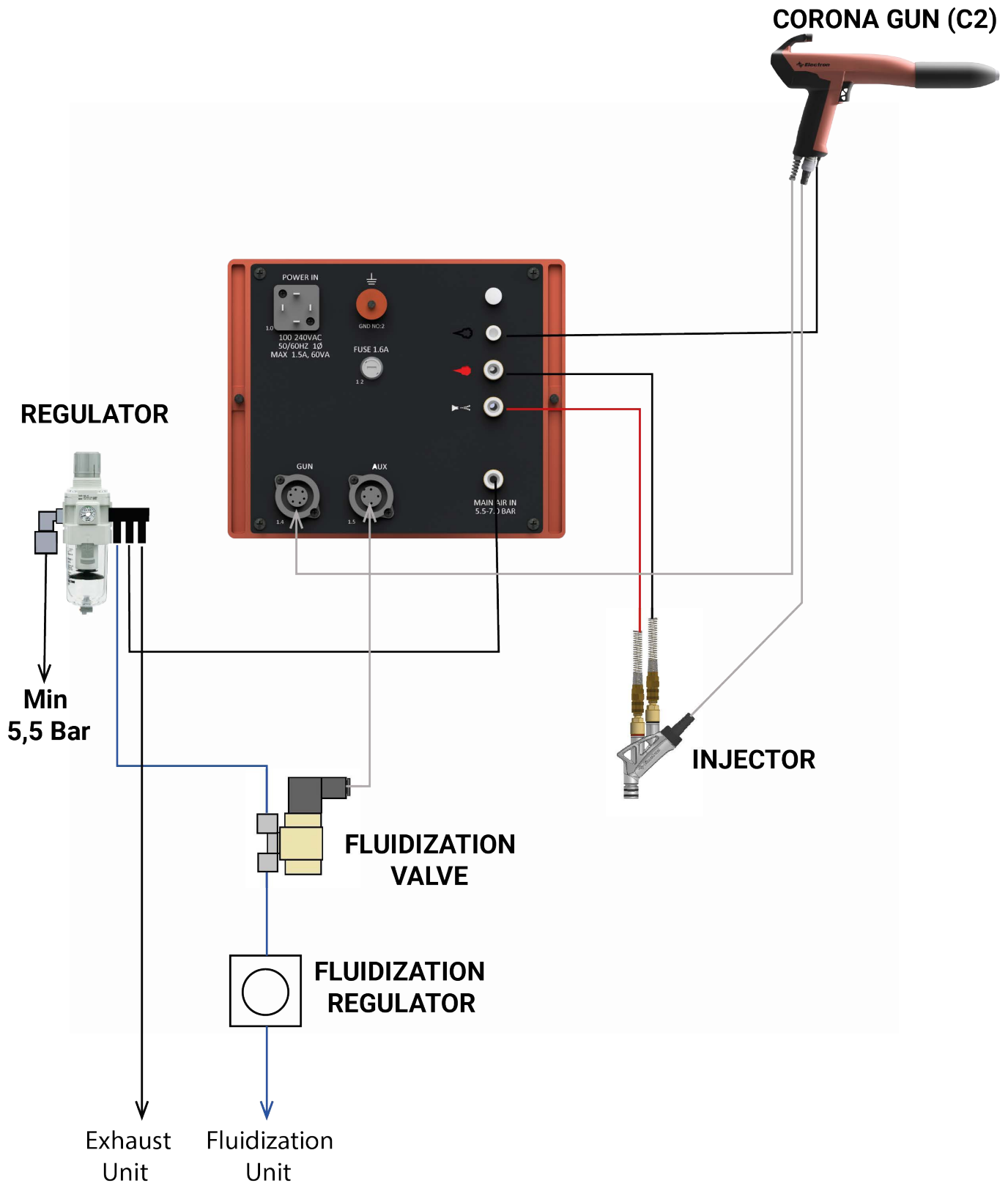


All electricity conducting parts and machinery in the workplace must be earthed. Please connect a ground wire 1.5 meters before the entrance of the cabinet, in the middle of the cabinet and 1.5 meters after the exit of the cabinet. The grounding resistance must amount to a maximum of 1 MOhm resistance has to be tested regularly. The appropriate devices must be kept in the workplace for regular grounding checks.

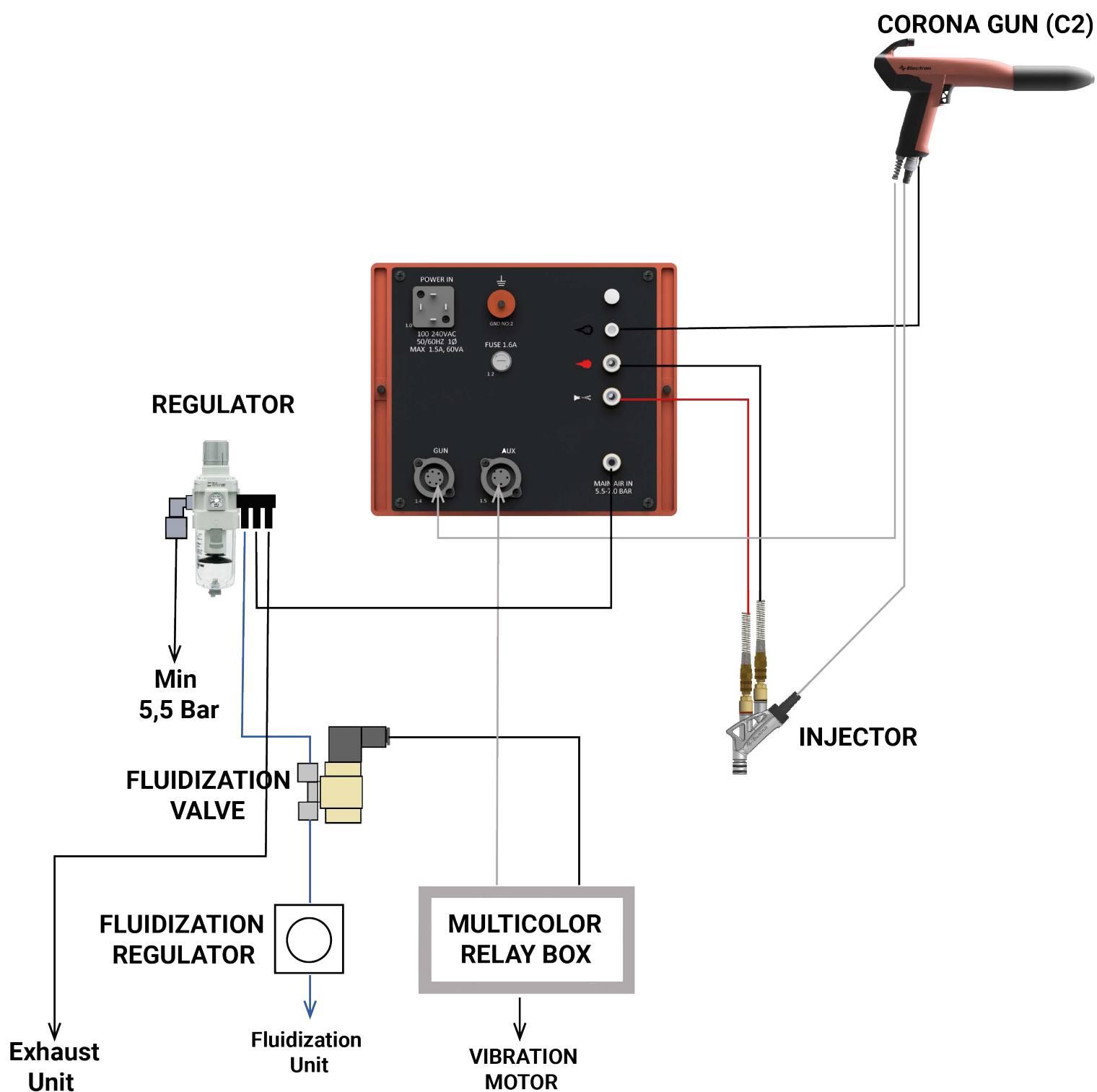
Grounding cable must be connected to the grounding screw of the electrostatic powder spraying hand appliance. It should have a good connection with the booth, hopper and conveyor chain (if used).

3.2. Installation

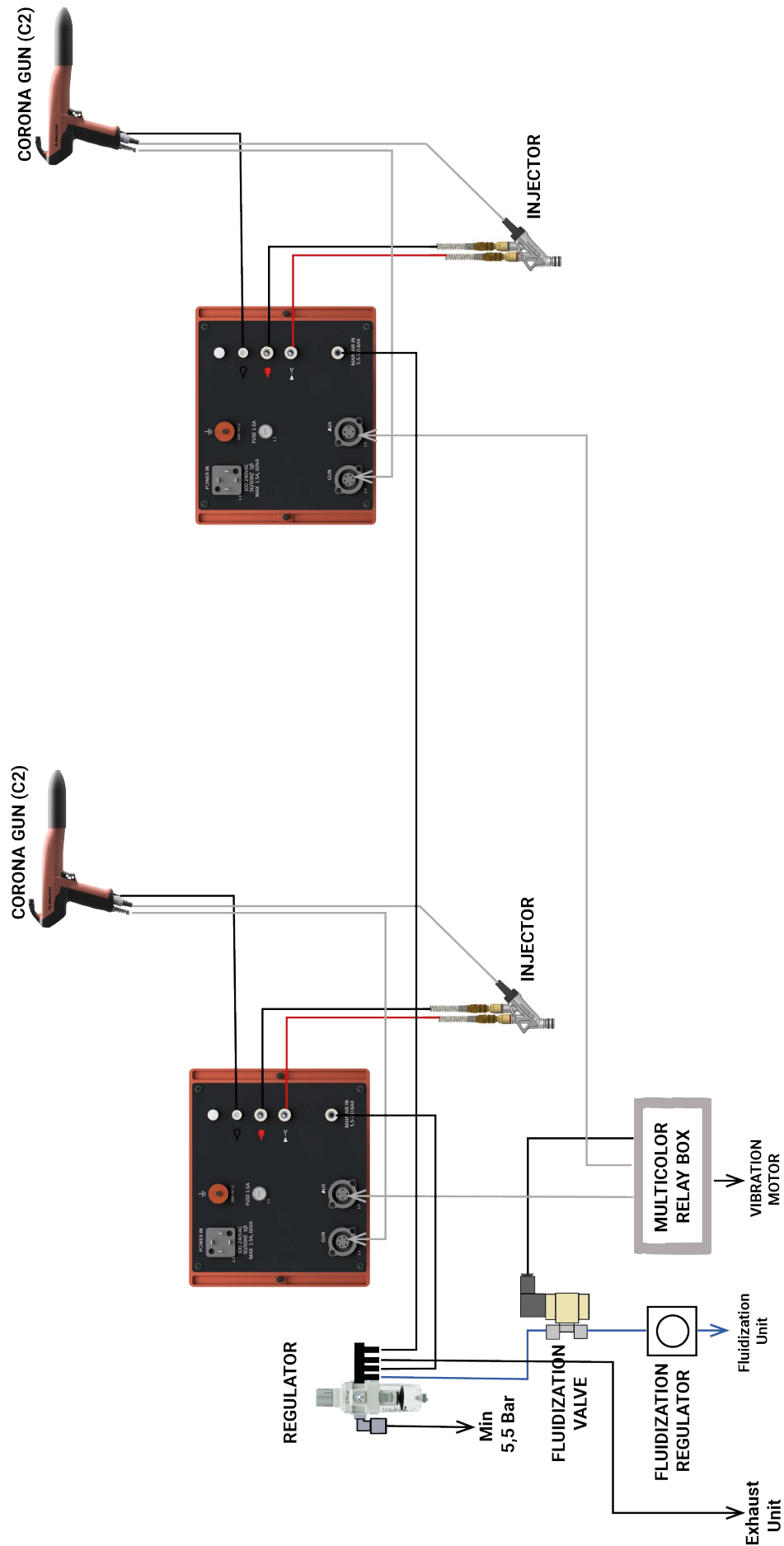
a. “Bare” and “H” type Device Kits Electro-Pneumtical Connections



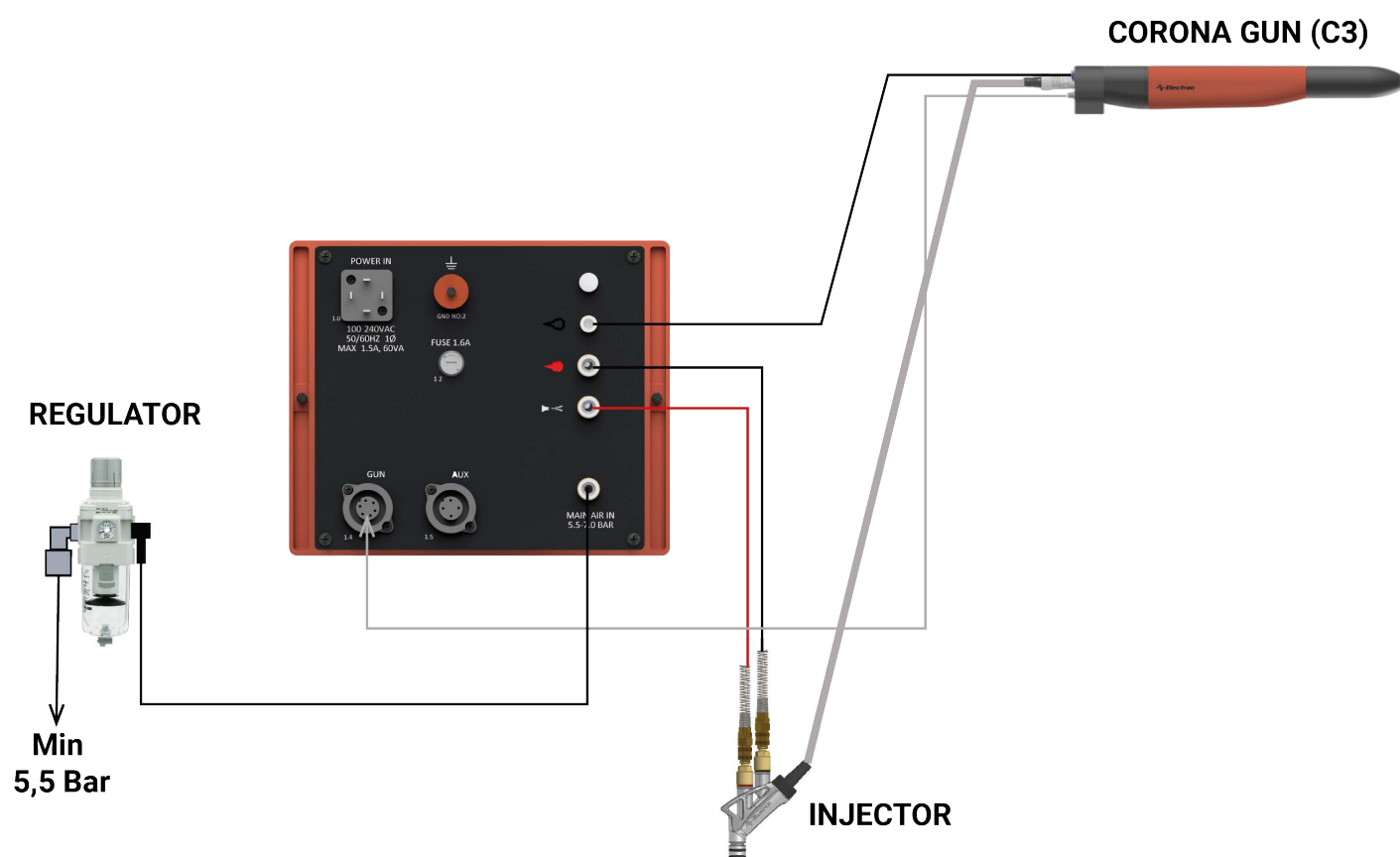
c. "M" type Device Kits Electro-Pneumtical Connections



d. Double "M" type Device Kits Electro-Pneumtical Connections



e.“A”type Device Kits Electro-Pneumatical Connections



3.3 Start Up

Info: E-COAT+3 PRO Powder Coating Control unit always starts with the last used configuration preferences.

In the above “System Connections” figure, all the electrical and pneumatic connections are shown. After correctly connecting the device, the user can press the “Main Switch” to start the control unit. The below procedure should be done at the first Start up.

E-COAT+3 PRO should be calibrated according to the products that are going to be powder coated before the start up. Once you are in the “Main Page” Press the B1 interface button for 5 seconds and the user will see the configuration setting in the device segments.

Code	Code Info	Preferences	Factory Preset
C-1 kV titled top segment	Gun Type	0 = Automatic 1 = Manual w/ Hopper w/o Hopper 2 = Manual w/ Multicolor/Mixer	1
C-3 μ A titled bottom segment	AUX output latency after trigger release	0-100	10

The correct installation steps of Electron E-COAT+3 PRO Control Unit are as follows:

1. C-1 parameter should be adjusted for the type of control unit system.
2. If there is a multicolor item, mixer or an optional gadget that is going to be used with the Control Unit via AUX output, C-3 parameter should be set in seconds for when the gun trigger is being released.

3.4 Operation

a. Creating and Saving a User Recipe



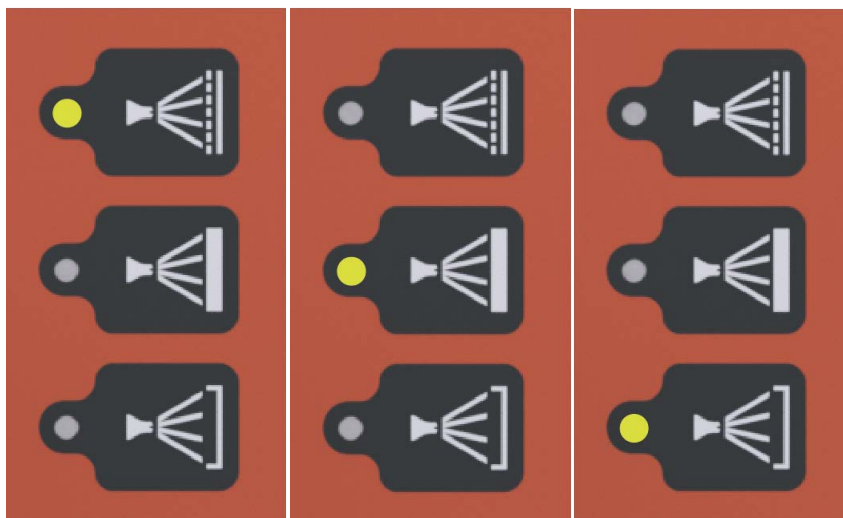
Recipe Segment

After adjusting the values from the control unit, the user can save the recipe for future usage. To save the current recipe, press and hold the segment button next to the recipe segment button for three seconds. You will see the recipe number flashing every 500ms. The user then chooses the recipe number for the current recipe. Turn the knob until the desired recipe number is selected. Once the number is selected the recipe can be saved.

To save the recipe, press and hold the same segment button for three seconds. This time, the screen will start flashing every 200ms for 2 seconds and the recipe will be saved successfully. If instead of pressing and holding for three seconds, the user presses the button once, the current recipe will not be saved and the screen will turn to its first position.

Info: The upper limit of the High Voltage is 100 kV and the current output limit is 100 μ A.

b. Predefined Recipe Usage



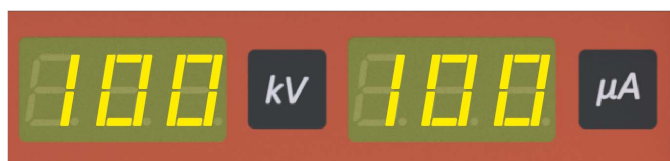
Pressing the first predefined recipe on the left side calls the flat surface coating application. After pressing, the screen automatically brings the P01 recipe and the LED indicator will light up. Similarly, if the user presses the button on the middle, the control unit brings up the P02 recipe which is the “Coating on Coated Surface”, and if the user presses the right buttons the “Coating on Notched Surface”. Recipe will be recalled and the proper LED will light up.

Predefined Recipe Working Parameters are located below

Predifined Recipe Name	High Voltage (kV)	Output Current (μ A)
Coating on Straight Faced Material	100	100
Coating on Coated Material	100	10
Coating on Notched Surfaces	100	22

c. High Voltage Preferences

As it is shown in the below figures, the values can be changed on the first two segment buttons. Once the value segment is selected, the user can adjust the values via rotating the knob on the device.



High Voltage and Current Adjustment Segments

The adjustments set the upper limits of both the High Voltage and Current Values. The values can change while gun operation, according to the coating application, and the type of workpiece. These values will also change according to the length between the workpiece and the tip of the gun. Once the gun is triggered the values can be read on the same segment.

Info: The upper limit of the High Voltage is 100 kV and the current output limit is 100 μ A.

d. Air and Powder Adjustments

E-COAT PRO Powder Coating Device includes manually adjustable pneumatic regulators with manometers. From top left to bottom right these are:

1. Supplementary Air
2. Powder Air

Powder Transfer Air  , Supplementary Air .



E-COAT+3 PRO Pneumatic Adjustment Regulators







3.5. Trigger

When triggered the Electrostatic Powder Application Control unit will start applying static electricity to the sprayed powder paint.

The trigger configuration can be done in two different ways

1. Using the gun trigger. (In a manual configuration)
2. If the POWER IN socket on the control unit is fed from the number three (3) meaning the terminal control unit's POWER IN socket number 3 feed, starting up a preconfigured equipment will be done via pressing the B1 interface button. If the control unit is active led will be lit. If the number three (3) cable socket is fed the powder paint will be blown it will be statically loaded.

Warning: The 1.0 coded POWER IN socket's inner connections and the fuse connections at the other end should be done by the ELECTRON technicians at the installation. Electron does not accept any responsibility for the possible damage if the equipment is altered or used before installation.

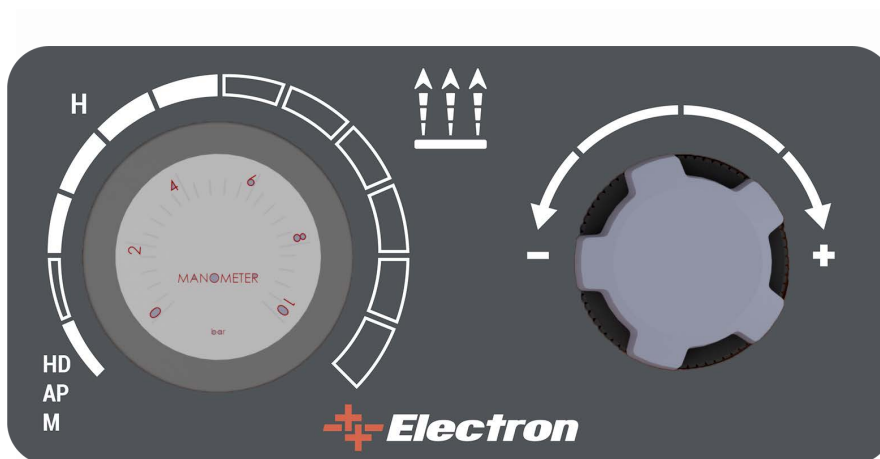
C1 Parameter	B1 Button Status	System Operation
0 = Automatic	 Enabled	The device is ready to be triggered. The device will be triggered when mains phase voltage is applied to pin #3 of POWER IN socket.
	 Disabled	The device is disabled to be triggered. The device will not be triggered when mains phase voltage is applied to pin #3 of POWER IN socket.
1 = Manual (w/or w/out hopper)	 Enabled	AUX socket is powered continuously.
	 Disabled	AUX socket is disabled.
2 = Manual (Multicolor/Stirrer)	 Enabled	AUX socket is powered depending on triggering. AUX is kept powered during triggering and turns off after the time defined in parameter C3 following trigger release.
	 Disabled	AUX socket is disabled.

B1 Button Function Table


Pressing the gun trigger on the manual gun or using the electrical trigger on the automatic gun, if the high voltage and the air/ powder ratio adjustments are done, the guns will be spraying statically loaded powder paint.

The user can observe this occurrence from the green lit led (D-T marked)  in front of the control unit.

3.6. Fluidization



Fluidization control Panel

A “Fluidization Control Panel” is placed on the mobile device carrier for the operator to easily adjust the fluidization pressure for H type devices with hopper or M type devices with box fluidized suction tubes. Turning the regulator knob counter-clockwise will decrease or clockwise will increase the applied pressure to the fluidization nozzle in the system. The green and red areas are signed to indicate the approximate operating pressure values for the fluidization air. The fluidization will start in parallel with the vibration motor when the device is triggered if the  button is enabled for “M” type multicolor sets.

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:

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

Weekly:

4. 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.

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

Part Change

The user can only change the consumables of the gun and some of the E-GUN 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	Possible Failure Reason	Solution
There isn't any output High Voltage or Powder Output.	<ol style="list-style-type: none"> 1. Gun cable is disconnect 2. Gun cable is damaged 3. Short Circuit or damage in the Gun Trigger grouping 	<ol style="list-style-type: none"> 1. Plug the cable. 2. Check for the damage or change the cable 3. Check the grouping for short circuit or damage and change the trigger group if needed.
The interface buttons are not working as intended.	<ol style="list-style-type: none"> 1. The Control Unit front panel membrane has a short circuit or damaged. 2. The Control Unit is not correctly configured. 	<ol style="list-style-type: none"> 1. Change the keypad of the membrane. 2. Check the entire configuration of the Control Unit and redo the configuration if needed.
The rotary Knob is not changing any values on the screen.	<ol style="list-style-type: none"> 1. The segment is not chosen 2. The Knob is damaged 	<ol style="list-style-type: none"> 1. Please select the segment that you want to change. 2. Check the Rotary Knob Nut.
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"> 1. The material is not earthed 2. The kV parameter is set to 0 3. The signal from the gun does not reach to the Cascade. 	<ol style="list-style-type: none"> 1. Earth the material or improve the grounding. 2. Set the kV parameter above 0 3. Check the connection between the gun Cascade and the Socket Group for a possible short circuit inside the gun.
The gun trigger is working and the High Voltage is working but there is no powder output.	<ol style="list-style-type: none"> 1. Blockage in the powder route 2. Tearing or disconnection between the injector and the control unit. 	<ol style="list-style-type: none"> 1. Remove the blockage in the powder route. 2. Change the Air or Powder Ratio other than 0 on the control unit. 3. Remove the blockage or fix the disconnection.
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"> 1. Gun trigger is damaged 	<ol style="list-style-type: none"> 1. Consult an ELECTRON expert
Parameters at the installation are configured but the powder pattern is not well.	<ol style="list-style-type: none"> 1. Teflon bushing in the injector's life cycle is ended. 2. Nozzle life cycle is ended. 3. Pneumatic hoses are damaged/broken or plugged. 4. The air channels are plugged. 5. Injector jet's life cycle is ended 	<ol style="list-style-type: none"> 1. Change the Teflon bushing. 2. Change the nozzle 3. Fix the pneumatic hoses or change them if needed. 4. Clean the injector and the filters. Change any necessary parts. 5. Change the injector jet.

6. Parts and Accessories



1



2



3



4



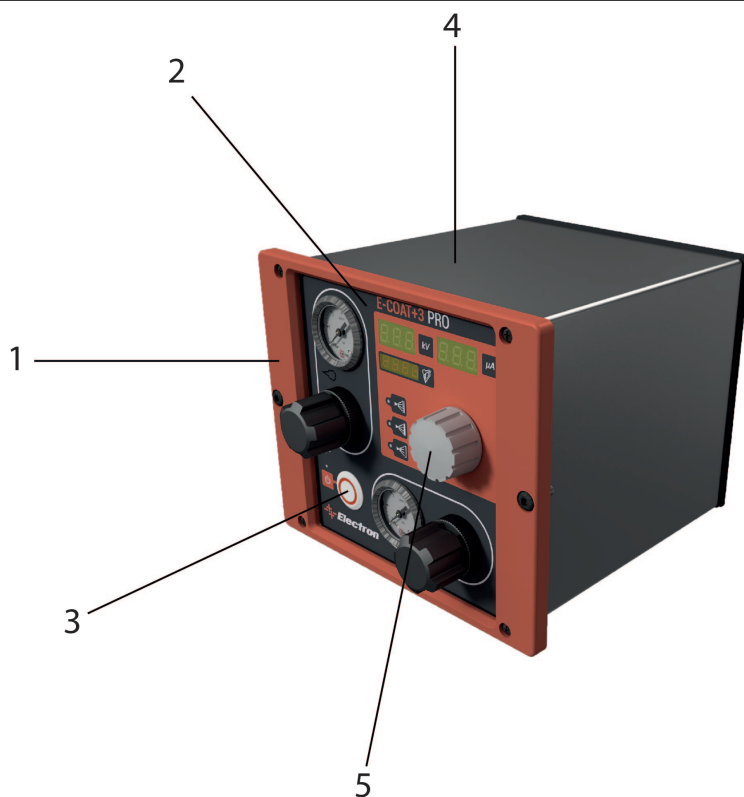
5



6

Product	Product Name	Order Code
1	E-COAT+3 PRO A Automatic Bare Kit	A06ECA04A+3
2	E-COAT+3 PRO B Manuel Bare Kit	A06ECM04B+3
3	E-COAT+3 PRO H	A06ECM04H+3
4	E-COAT+3 PRO M	A06ECM04M+3
5	E-COAT+3 PRO H Dual	A06ECM04HD+3
6	E-COAT+3 PRO M Dual	A06ECM04MD+3

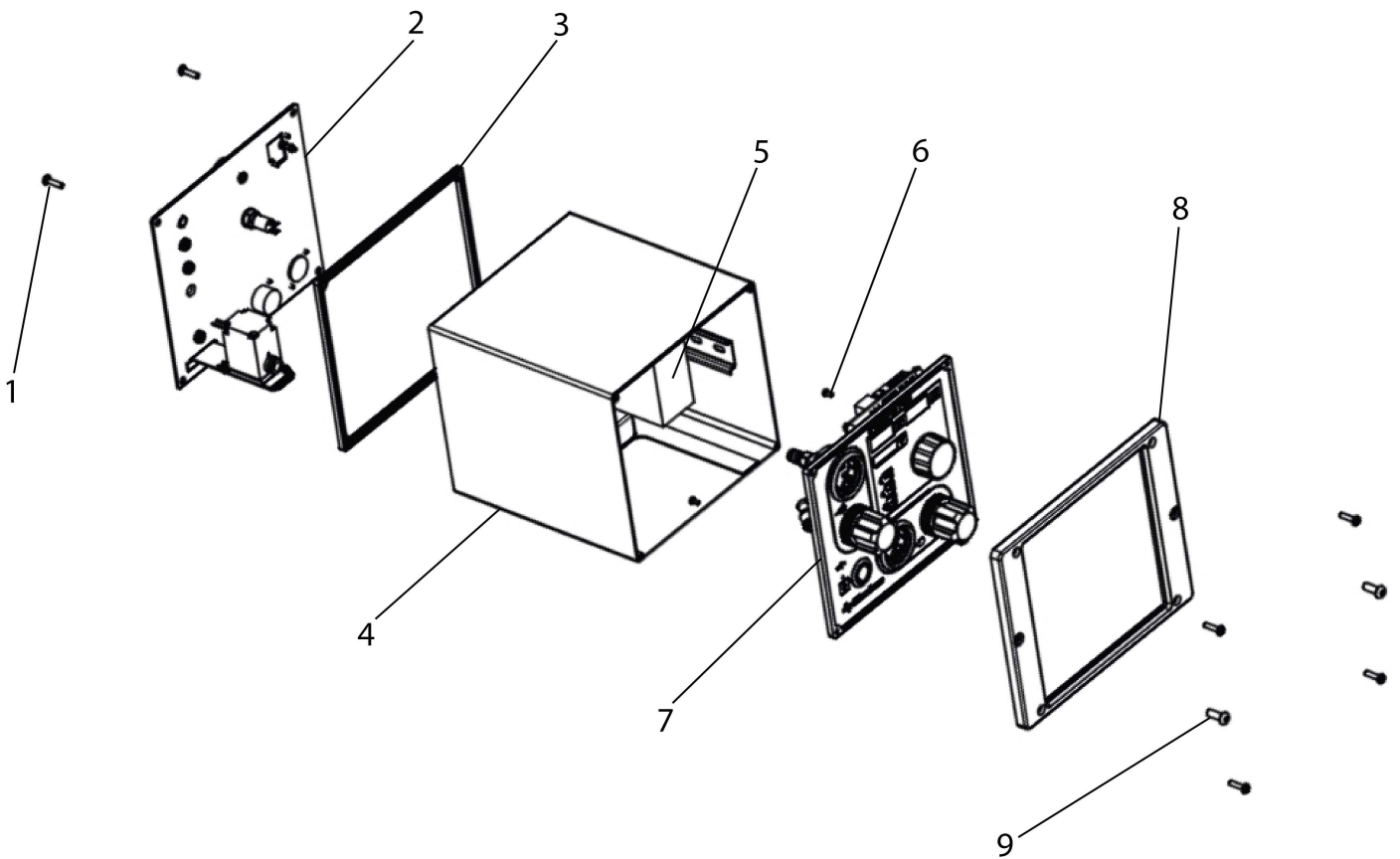
Control Unit Type	Order Code
E-COAT+3 PRO Control Unit	B07ECPU03



Part No	Part Name	Order Code	Qty
1	E-COAT+3 CONTROL UNIT FRAME	B07EC5108	1
2	E-COAT+3 PRO FRONT MEMBRANE	ETKT04013	1
3	0-1 KEY Ø22 STAINLESS ORANGE RING LED	ELBS01001	1
4	E-COAT+3 CONTROL UNIT CASE	B07EC5101	1
5	INCREMENTAL ENCODER	ELON12002	1

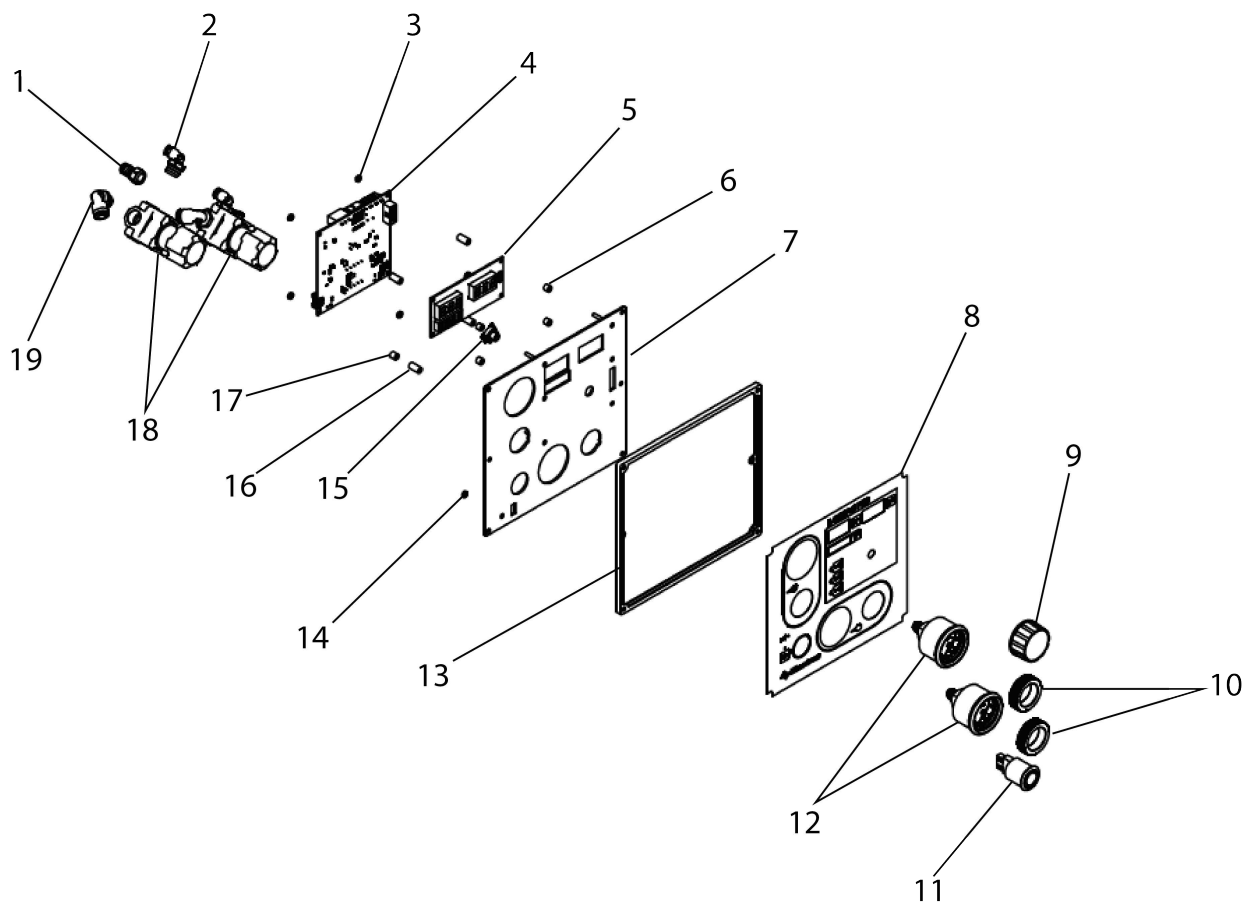


Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
B07POWER01	E-COAT MANUAL DEVICES POWER CABLE (3m)	N/A	✓
B07POWER02	E-COAT AUTOMATIC DEVICES POWER CABLE (4 m)	N/A	✓

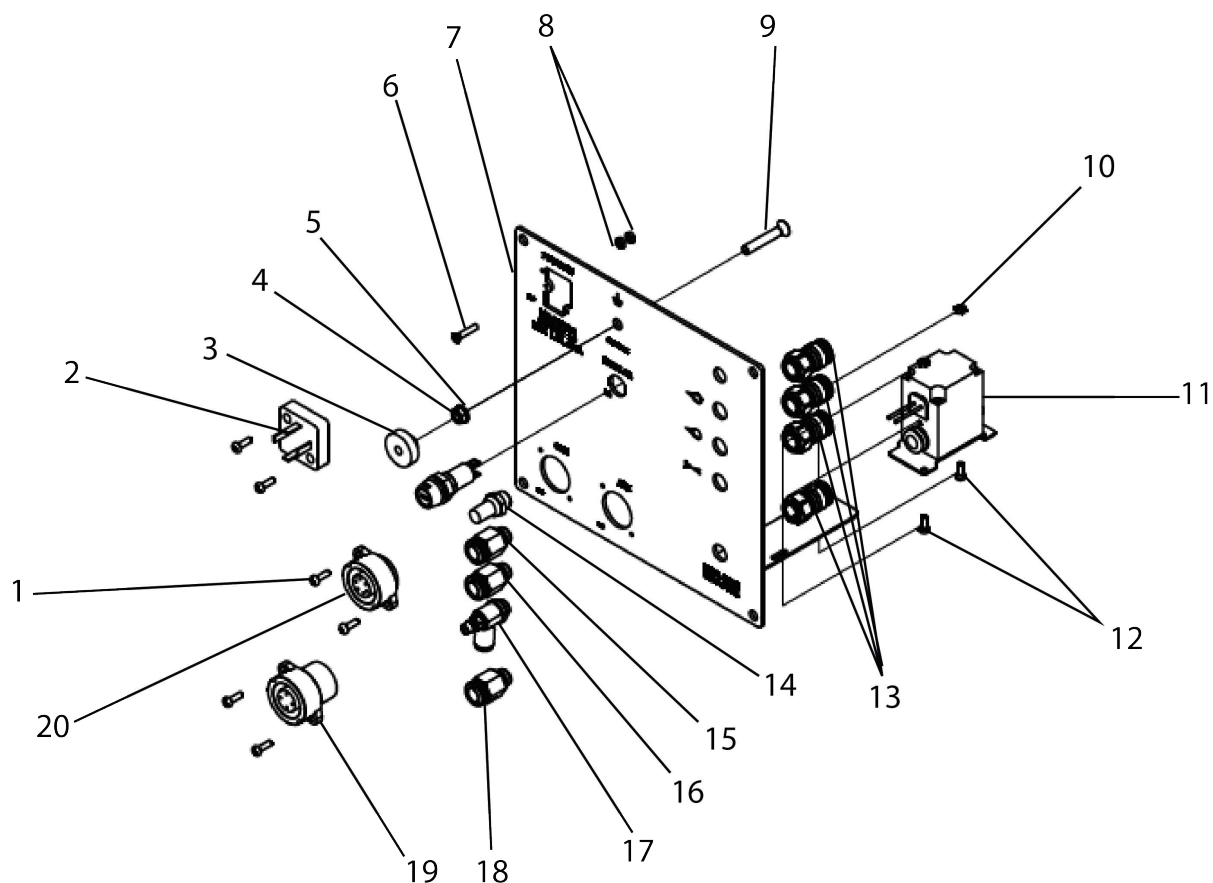


Part No	Part Name	Order Code
1	SCREW M3X6 YSB	BECV01058
2	E-COAT+3 PRO BACK SHEET GROUP	*
3	E-COAT+3 CONTROL UNIT BACK GASKET	IZCS01017
4	E-COAT+3 DEVICE CASE	B07EC5101
5	SMPS 65W DIN RAIL TYPE	ELON10022
6	SCREW M3X6 YSB	BECV01058
7	E-COAT+3 PRO MEMBRANE GROUP	*
8	E-COAT+3 DEVICE CASE FRAME	B07EC5108
9	DEVICE FRAME HEX SOCKET BUTTON HEAD BOLT M6X16	BECV03029

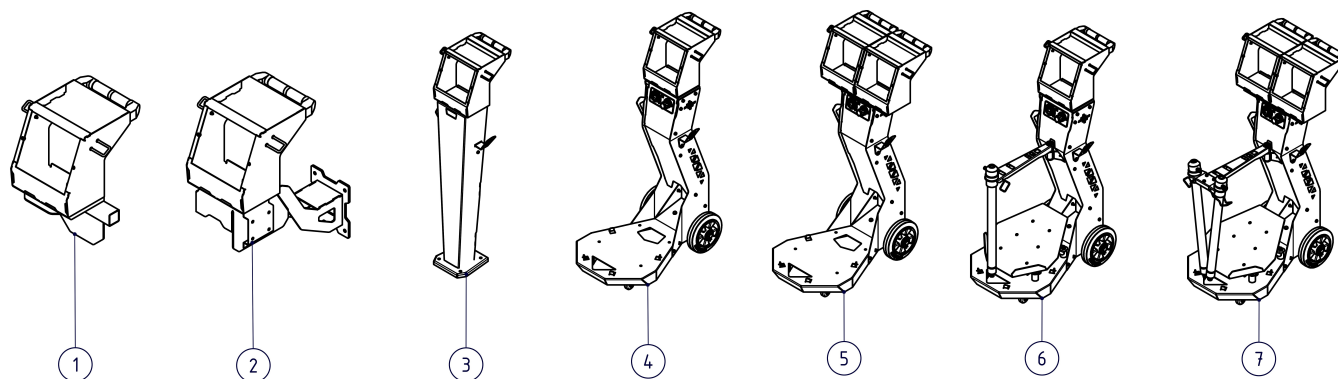
Note: For products for which the order code is not shown, please consult the electron company.



Part No	Part Name	Order Code
1	STRAIGHT COUPLING 1/8"-Ø4 FEMALE	PNRD01031
2	SHORT COUPLING 1/4" Ø4 MALE SWIEVELLING ELBOW	PNRD03001
3	NUT M3	BESM01002
5	E-COAT PRO/BASIC MAINBOARD	B07500003P
4	E-COAT PRO LED CARD (7 SEGMENT)	B07500004P
6	DISTANCE PLASTIC 5 MM	ELDE05004
7	E-COAT+3 PRO FRONT ALUMINUM SHEET ASSEMBLY	B07EC5016
8	E-COAT+3 PRO FRONT MEMBRANE	ETKT04013
9	KNOB ROTARY	ELON12003
10	RAGULATOR PANNEL CAGE NUT	PNPE01003
11	O-1 KEY Ø22	ELBS01001
12	PNEUMATIC MANOMETER Ø40X6 BAR	PNPE07003
13	E-COAT+3 CONTROL UNIT FRONT GASKET	IZCS01016
14	NUT M3	BESM01002
15	ENCODER INCREMENTAL	ELON12002
16	DISTANCE PLASTIC 12 MM	ELDE05006
17	DISTANCE PLASTIC 6 MM	ELDE05005
18	REGULATOR 1/4" 0-8,5 BAR	PNPE01001
19	SHORT SWIEVELLING ELBOW COUPLING 1/4"-Ø8 MALE	PNRD01035



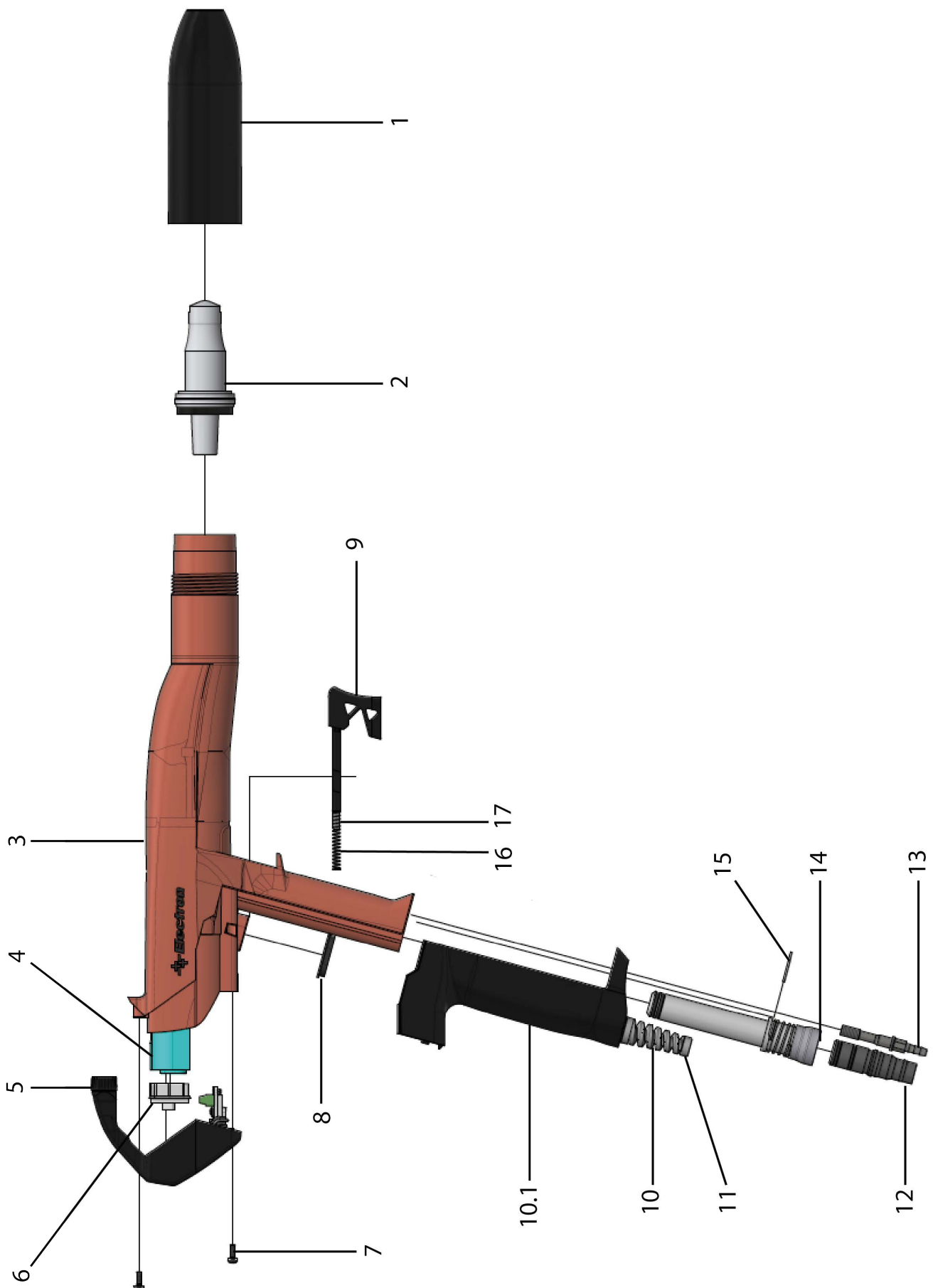
Part No	Part Name	Order Code
1	SCREW M3X10 YSB	BECV01002
2	SOCKET VALVE A TYPE	ELKS10004
3	GROUNDING NUT (M5X20)	TRTM05017
4	NUT M5	BESM01004
5	WASHER M5	BEPL04008
6	SCREW M3X15 YHB	BECV02002
7	E-COAT+3 PRO CONTROL UNIT BACK SHEET	B07EC5017
8	NUT M3	BESM01002
9	SCREW M5X30 YHB	BECV02010
10	NUT M3	BESM01002
11	SOLENOID VALVE	PNPE04011
12	SCREW M3X8 YSB	BECV01001
13	STRAIGHT COUPLING 1/8" - Ø8 FEMALE	PNRD01027
14	SILENCER SINTER 1/8" M3	PNDP01006
15	STRAIGHT COUPLING 1/8"-Ø8 MALE BLUE	PNRD01042
16	COUPLING 1/8"-Ø8 MALE RED	PNRD01016
17	SPEED ADJUSTMENT ELBOW COUPLING 1/8"-Ø6	PNRD03035
18	PNEUMATIC STRAIGHT COUPLING 1/8" - Ø8 MALE ORANGE	PNRD01011
19	SOCKET BINDER RD24 SCREW TYPE 4 PIN FEMALE	ELKS03001
20	SOCKET BINDER RD24 SOLDERED TYPE 7 PIN FEMALE	ELKS03003



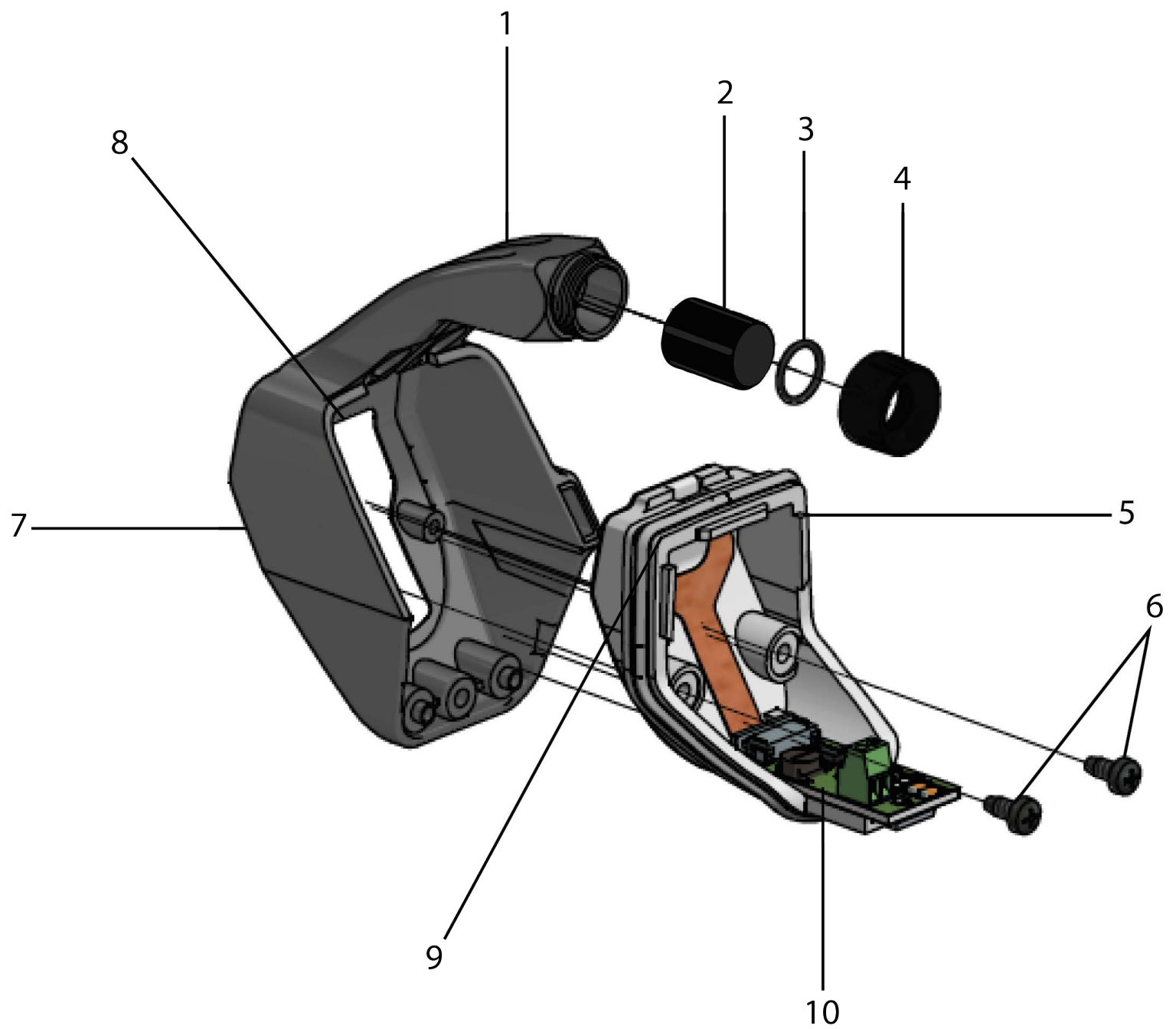
Part No	Accessory Type	Order Code
1	E-COAT+3 PRO PLATFORM MOUNTING KIT	B07ECT004+3
2	E-COAT+3 PRO WALL MOUNTING KIT	B07ECT003+3
3	E-COAT+3 PRO SINGLE STAND KIT	B07ECT005+3
4	E-COAT+3 PRO MOBILE STAND KIT	B07ECT119
5	E-COAT+3 PRO MOBILE STAND DUAL KIT	B07ECT103
6	E-COAT+3 MULTICOLOR KIT	B07ECT102
7	E-COAT+3 MULTICOLOR DUAL KIT	B07ECT107



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



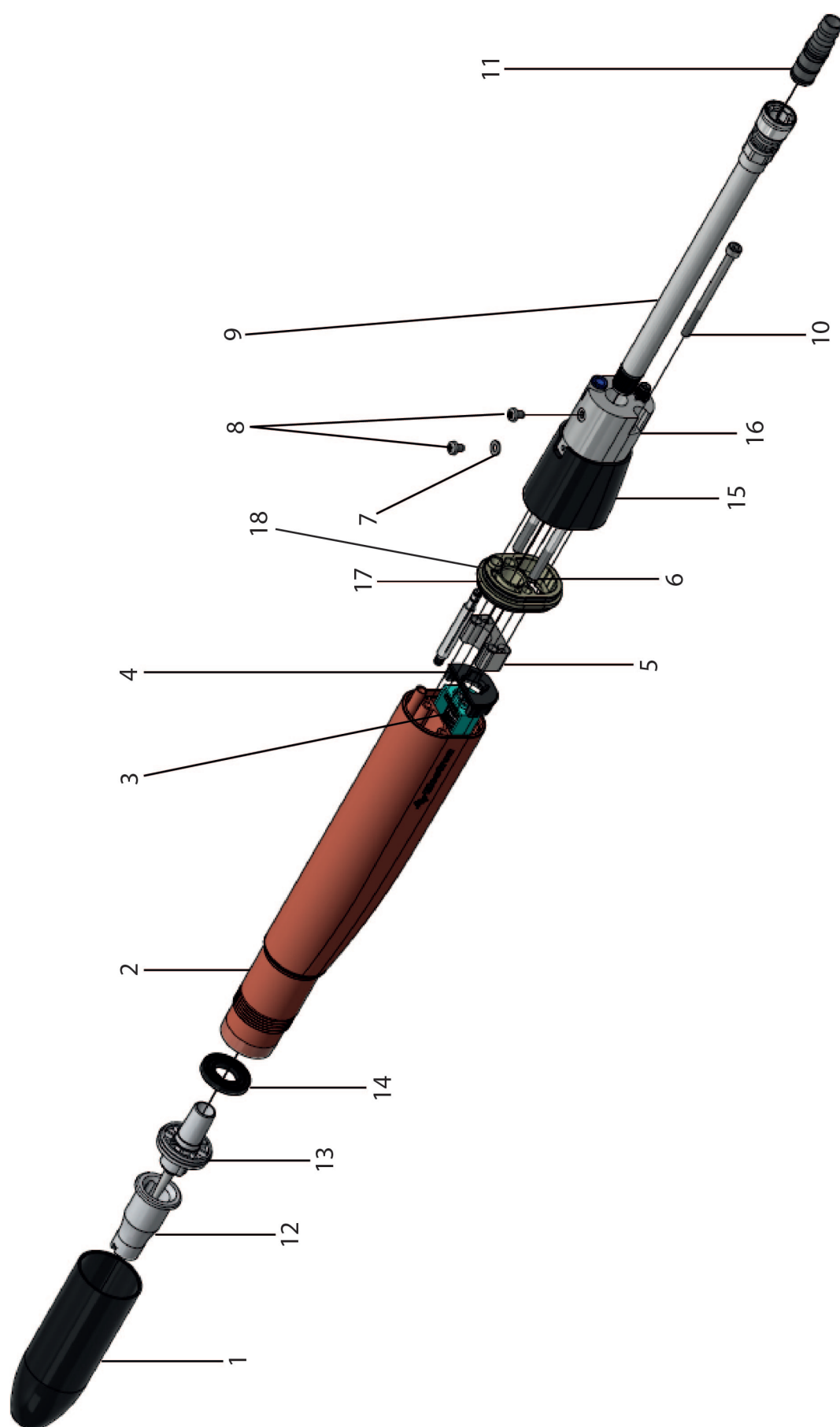
PART #	ORDER CODE	PART NAME	Wearing Part	RECOMMENDED STOCK PARTS
1	B10631007	E-GUN+3 NOZZLE TIGHTENING NUT	N/A	✓
2	B07531002	E-GUN+3 FLAT HEAD GROUP	✓	✓
3	B10631001	E-GUN+3 MANUAL GUN PLASTIC BODY (COMPLETE)	✓	✓
4	B07EGCN02	E-CASCADE+3	N/A	✓
5	B07BC0003	E-GUN+3 BACK COVER (COMPLETE)	N/A	✓
5.1	B07EGK002	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 INNER 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 INNER BODY GASKET	N/A	✓
10	B07EGK001	E-GUN+3 C2 MANUAL GUN CARD (COMPLETE)	N/A	✓



Part No	Order Code	Part Name	Wearing Part
1	B07EGC300+3	E-GUN+3 C3 AUTOMATIC POWDER COATING GUN	N/A



Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	B10631007	E-GUN+3 C3 NOZZLE TIGHTENING NUT	N/A	N/A
2	B10632001	E-GUN+3 C3 PLASTIC FRONT BODY	✓	✓
3	B07EGCN02	E-CASCADE+3	N/A	✓
4	ENEM04012	E-GUN+3 C3 CASCADE ISOLATION GASKET	N/A	N/A
5	TRTM06245	E-GUN+3 C3 INSIDE ASSEMBLY PART	N/A	N/A
6	BECV03128	M6X60 CYLINDER HEAD CAP SCREW	N/A	N/A
7	BEPL03002	A 4.3 WASHER	N/A	N/A
8	BECV01020	M4X6-H SCREW	N/A	N/A
9	B07531001	E-GUN+3 C3 PAINT INLET TUBE	✓	✓
10	BECV08003	M5X70 CYLINDER HEAD CAP SCREW	N/A	N/A
11	B07EC0004	E-GUN+3 C3 HOSE CONNECTION PART W/ORING	✓	✓
12	TRTM01046	E-GUN+3 FLAT CAP	✓	✓
13	B07531006	E-GUN+3 FLAT ELECTRODEGROUP	✓	✓
14	TRTM08282	E-GUN+3 Ø35 CARBON RING	✓	✓
15	B10632003	AUTOMATIC GUN PLASTIC BODY BACK PART	✓	✓
16	TRTM04196	AUTOMATIC GUN BACK FINISHER	✓	✓
17	B10632004	CASCADE COMPRESSION PLASTIC	✓	✓
18	IZOR01079	O-RING - CASCADE COMPRESSION PLASTIC	✓	✓

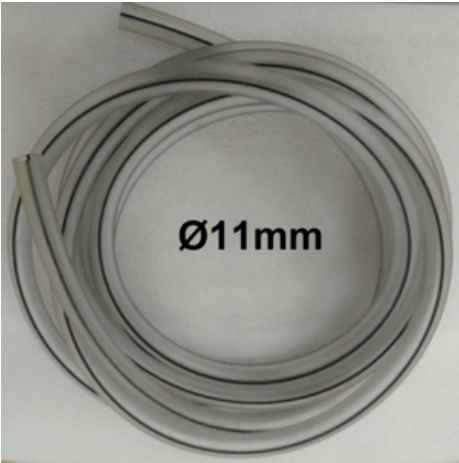
Note: Please check the nozzle types selection list



L = 5 m

L = 10 m

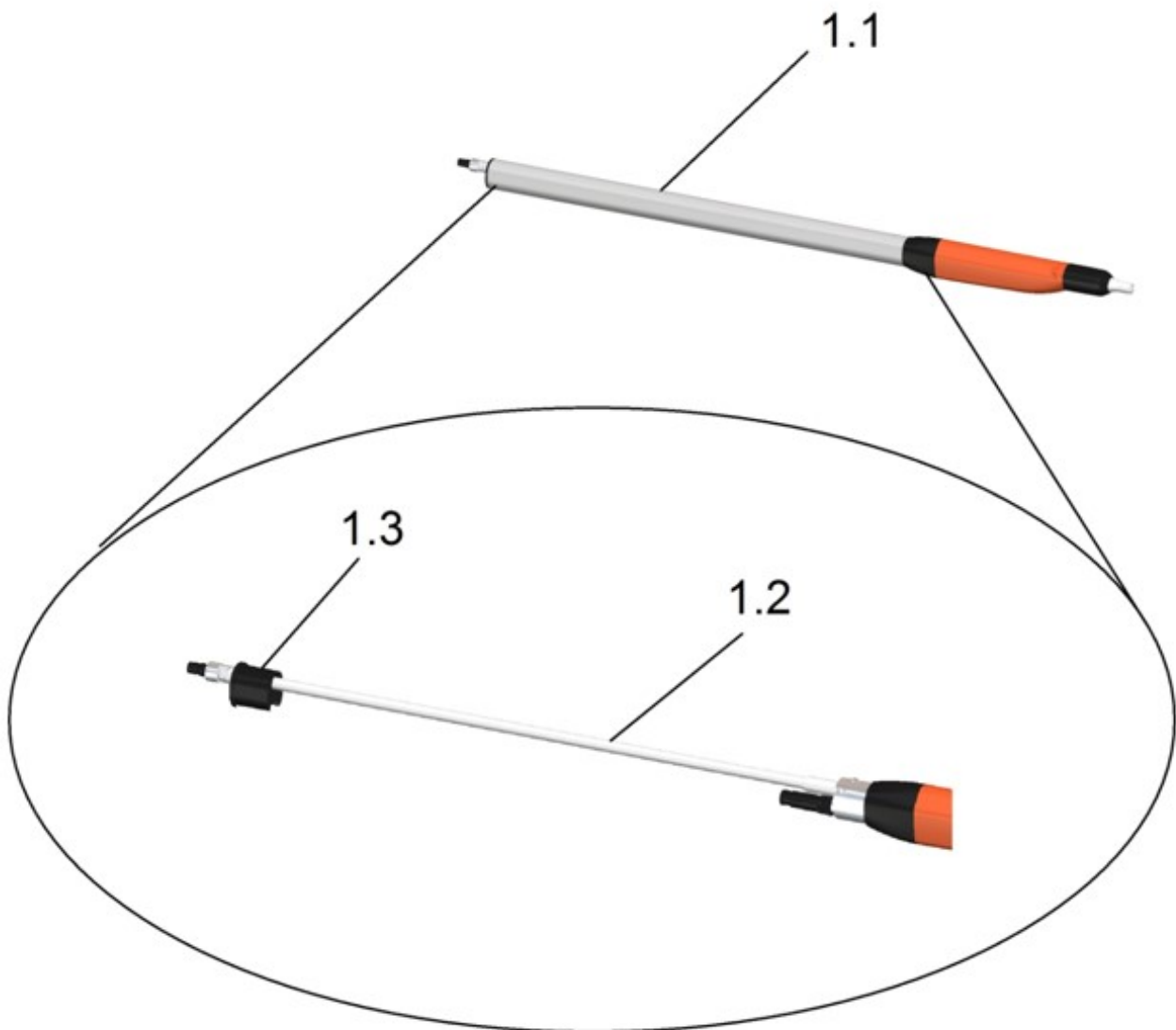
Part No	Part Name	Order Code	Wearing Part	RECOMMENDED STOCK PARTS
1	E-GUN GUN CABLE EXTENSION KIT 5 M	B07EXT005	N/A	N/A
2	E-GUN GUN CABLE EXTENSION KIT 10 M	B07EXT006	N/A	N/A



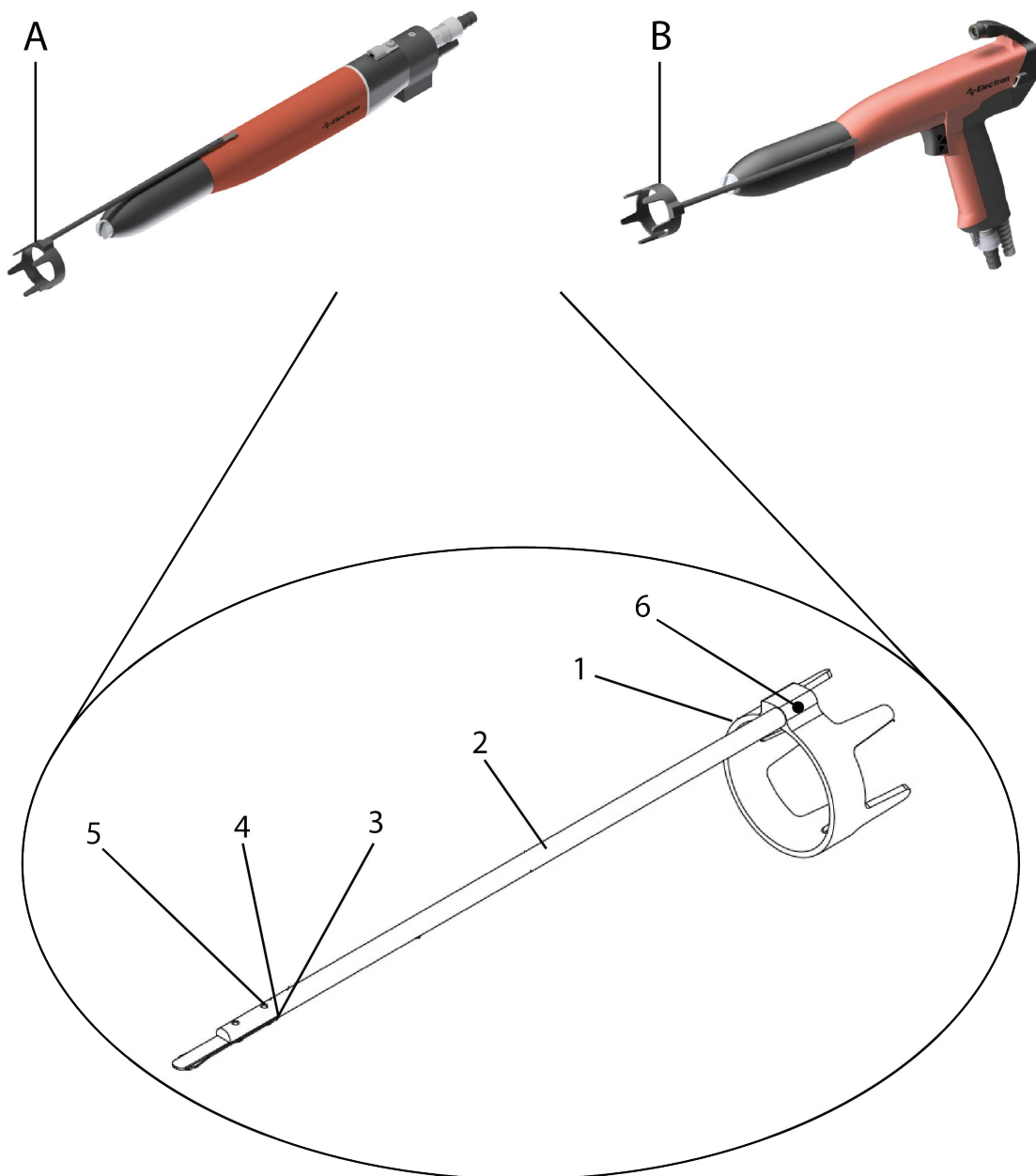
Part No	Part Name	Order Code	Wearing Part	RECOMMENDED STOCK PARTS
1	11X16 POWDER HOSE w/ DOUBLE CARBON DISCHARGE LINES (ORDER IN METERS)	PNHO03001	✓	✓



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	RECOMMENDED STOCK PARTS
1	B07RCA301	COMPOSITE RECIPROCATOR ARM	N/A	N/A
1.1	AKUA03002	E-GUN+3 C3 COMPOSITE RECIPROCATOR ARM 750 MM	N/A	✓
1.2	B07RCA302	RECIPROCATOR ARM PAINT TRANSFER PIPE (COMPL.)	✓	✓
1.3	B06CE05001	RECIPROCATOR ARM BACK COVER	N/A	N/A



Part No	Order Code	Part Name	Wearing Part
A	B07FCR301	E-GUN+3 C3 FAST CORONA RING	N/A
B	B07FCR302	E-GUN+3 C1/C2 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



A2



B2

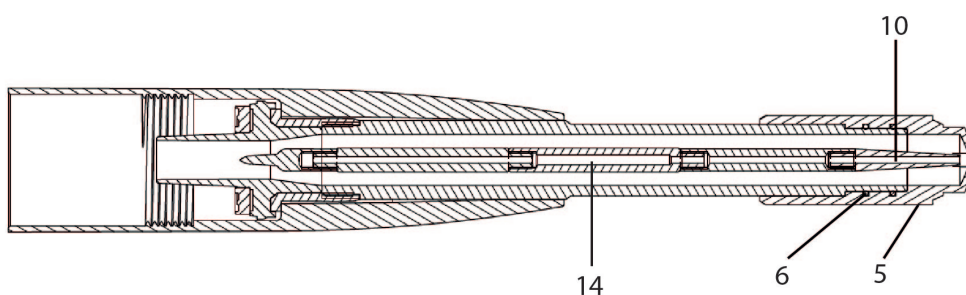


C2

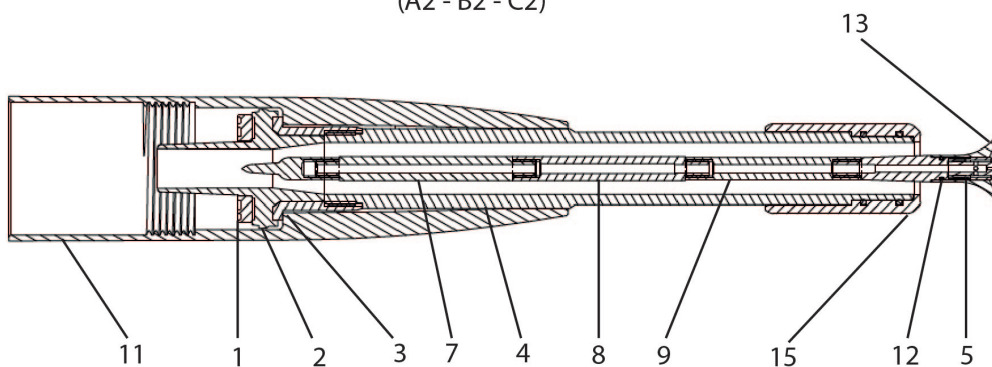
EXTENSION HEAD GROUPS - FLAT



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



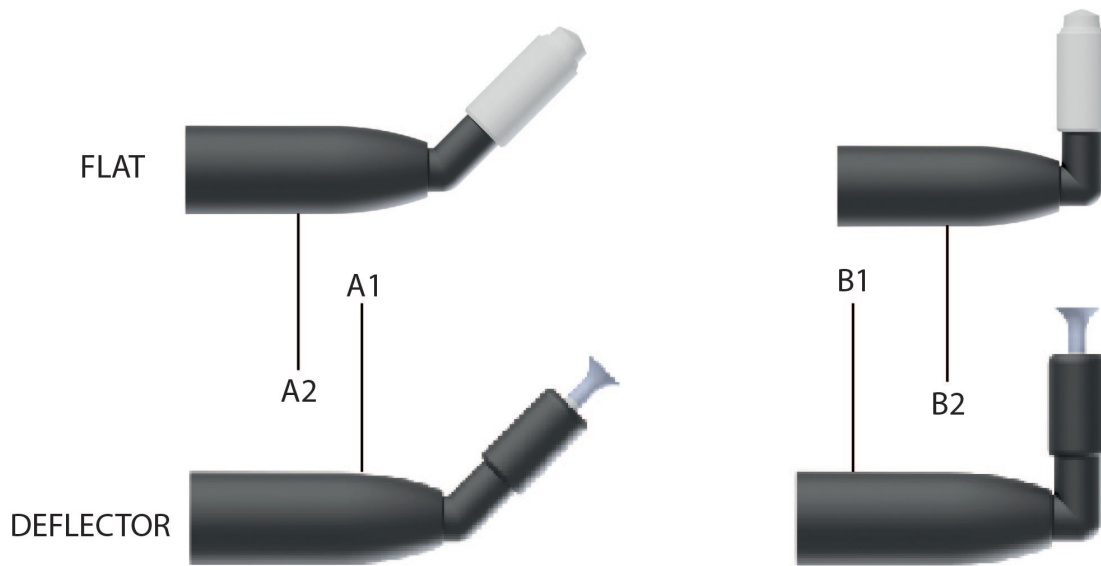
(A2 - B2 - C2)



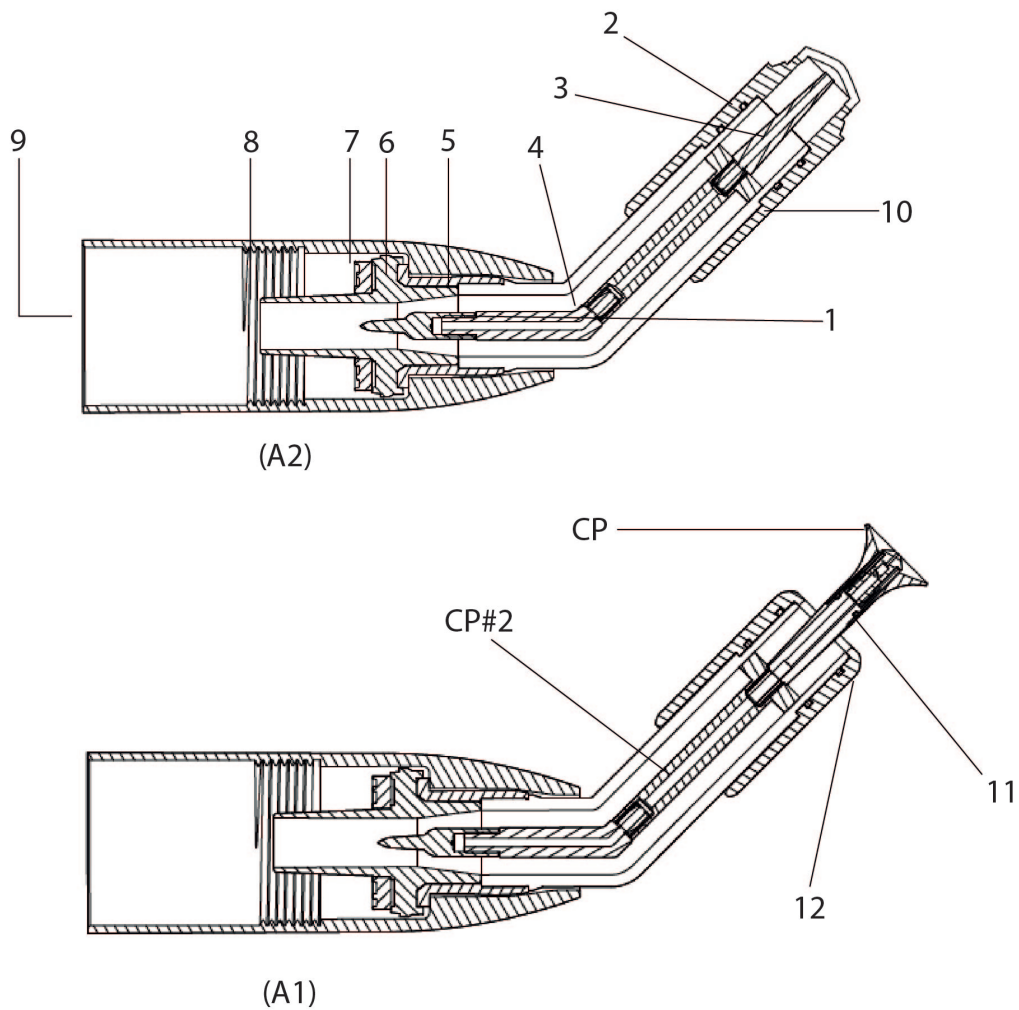
(A1 - B1 - C1)

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

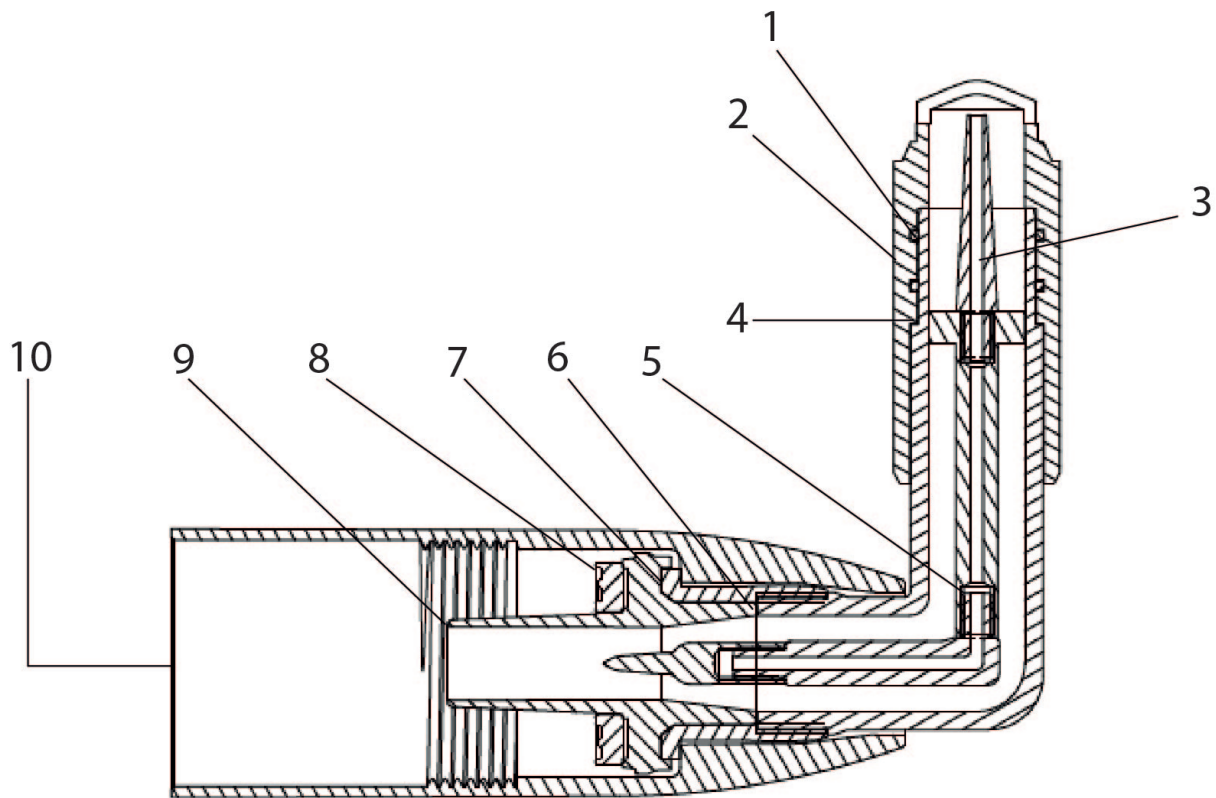
Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
A1	B07EXT031D	E-GUN+3 150 MM EXTENSION HEAD GROUP - DEFLECTOR	N/A	N/A
A2	B07EXT032F	E-GUN+3 150 MM EXTENSION HEAD GROUP - FLAT	N/A	N/A
B1	B07EXT032D	E-GUN+3 250 MM EXTENSION HEAD GROUP - DEFLECTOR	N/A	N/A
B2	B07EXT032F	E-GUN+3 250 MM EXTENSION 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	✓



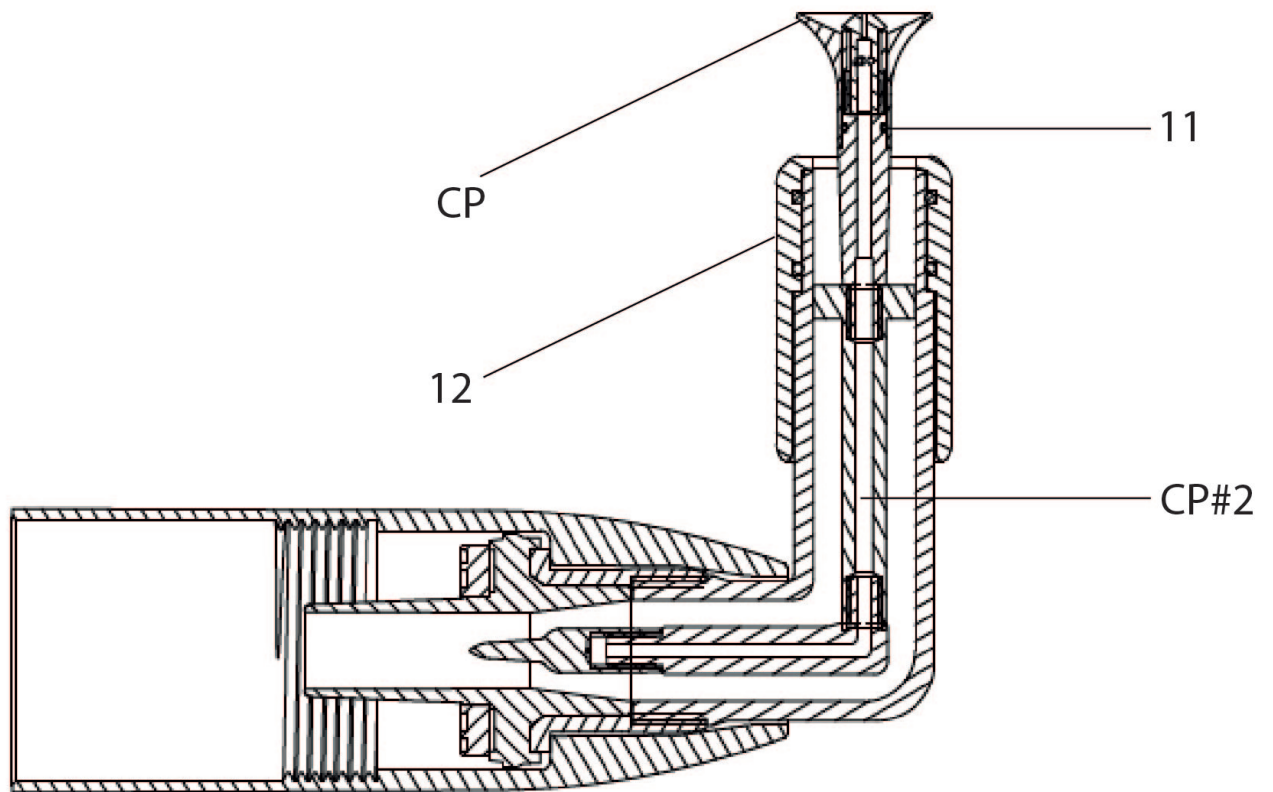
ANGLED HEAD GROUPS DEFLECTOR & FLAT



ANGLED HEAD GROUPS DEFLECTOR & FLAT



FLAT (B2)



DEFLECTOR (B1)

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

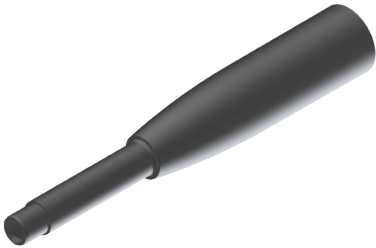
1.



2.



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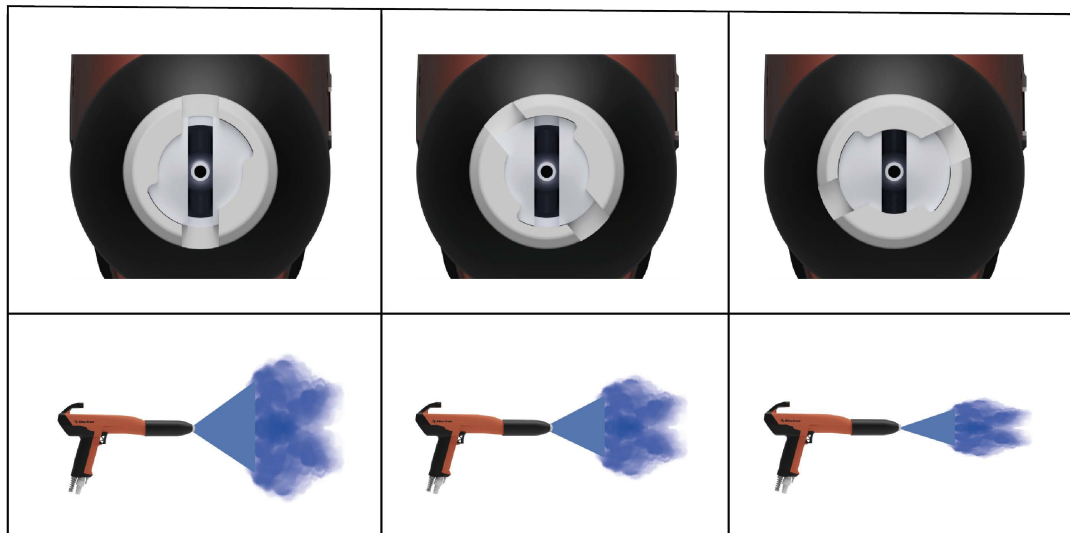
6.



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 C2 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



STANDARD PATTERN

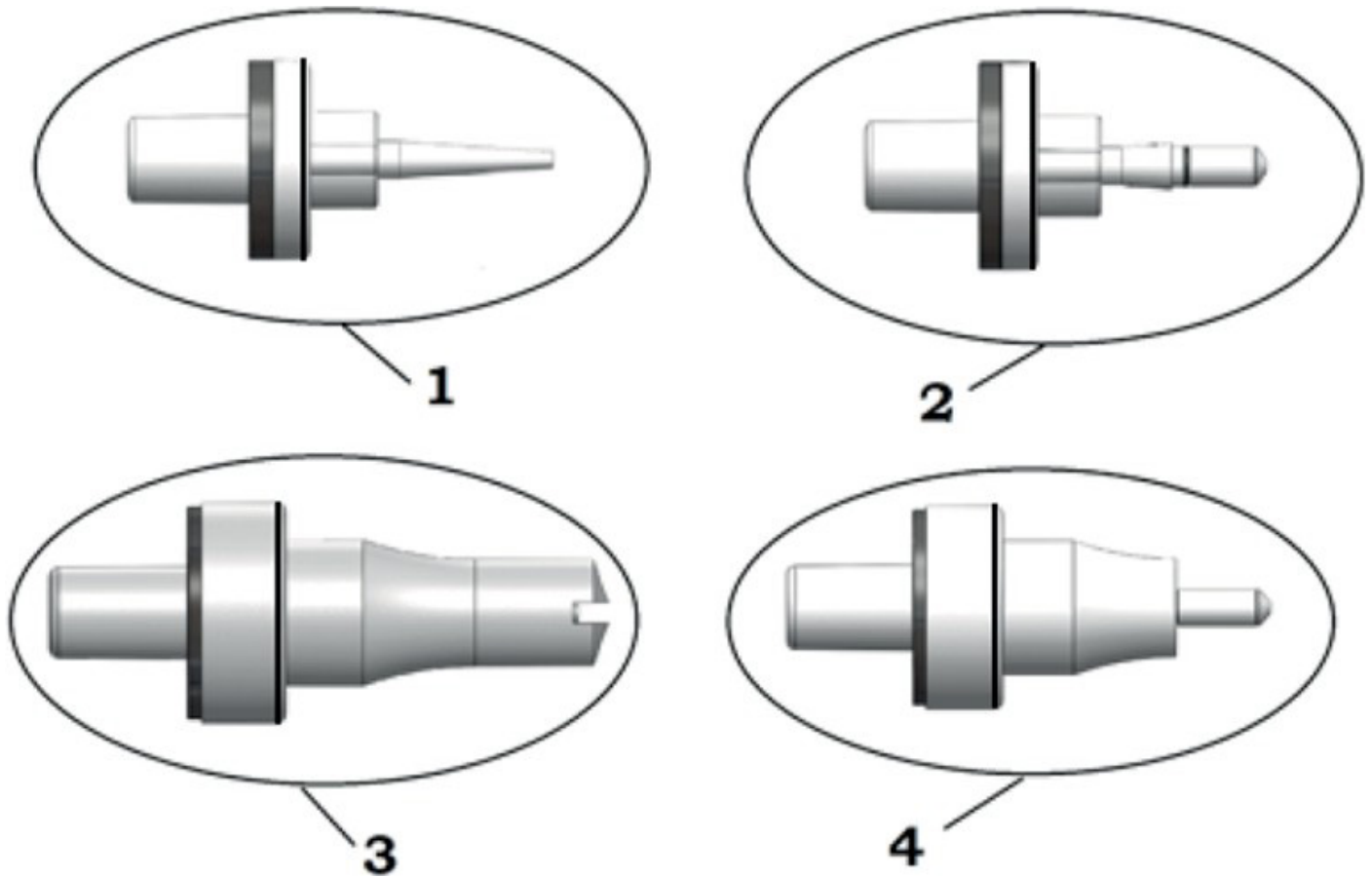
NARROW PATTERN

FOCUSED PATTERN

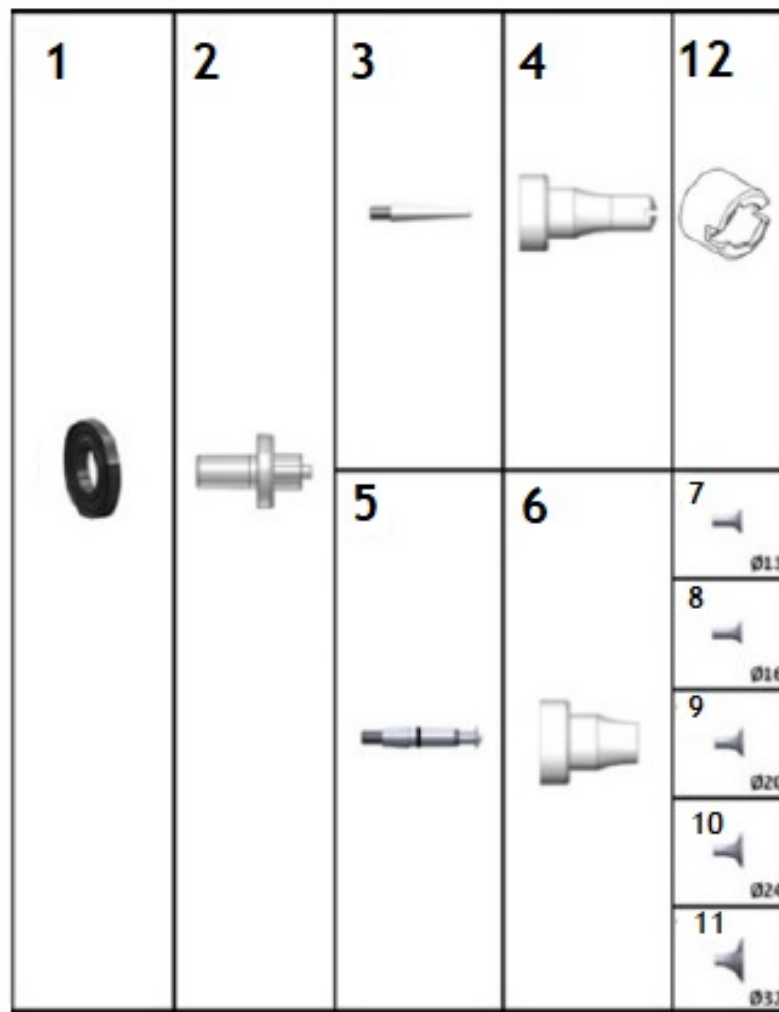
The Pattern adjuster attached to the tip of the manual or automatic gun ensures that the paint coming out of the gun is formed in a narrowed form. It is used by rotating and has three positions.

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

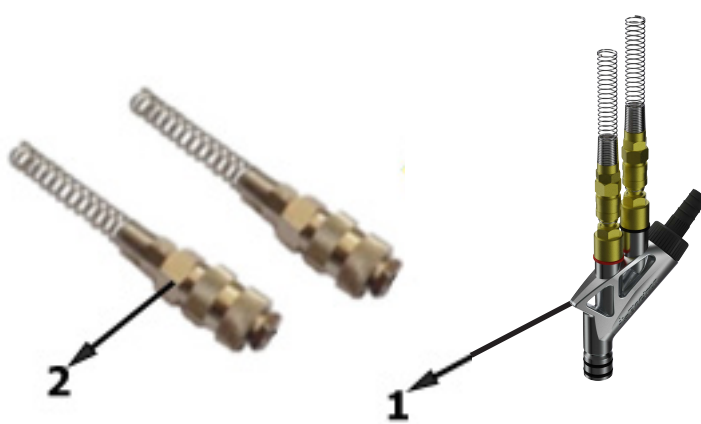
The pattern adjuster ensures that the powder paint reaches the deepest points of the recessed parts. It is recommended for use in coating parts with recesses or complex geometry.



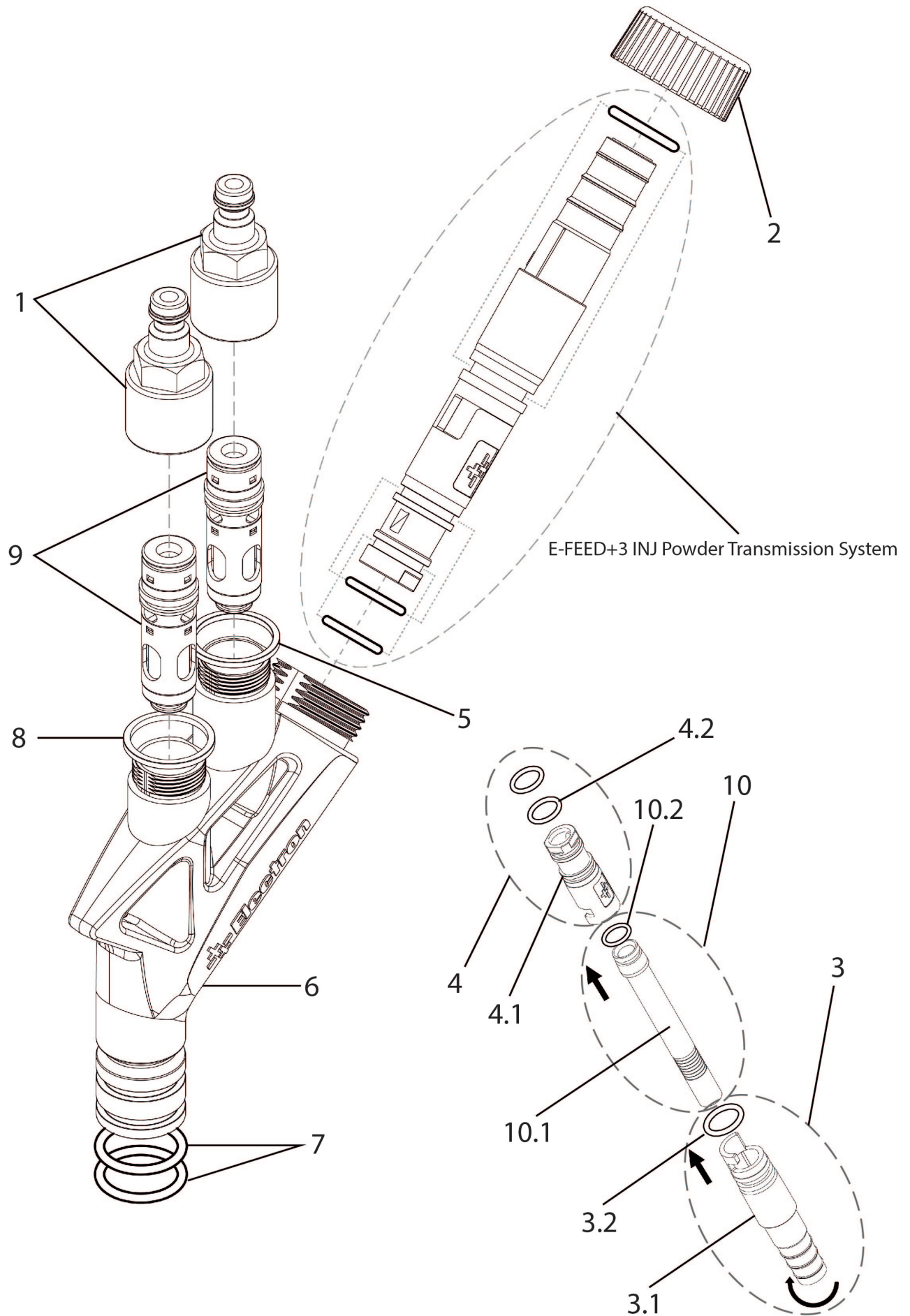
Part No	Order Code	Part Name	Wearing Part
1	B07531006	E-GUN+3 FLAT ELECTRODE GROUP	N/A
2	B07531007	E-GUN+3 ELECTRODE GROUP WITH DEFLECTOR	N/A
3	B07531002	E-GUN+3 FLAT HEAD GROUP	N/A
4	B07531008	E-GUN+3 HEAD GROUP WITH DEFLECTOR	N/A



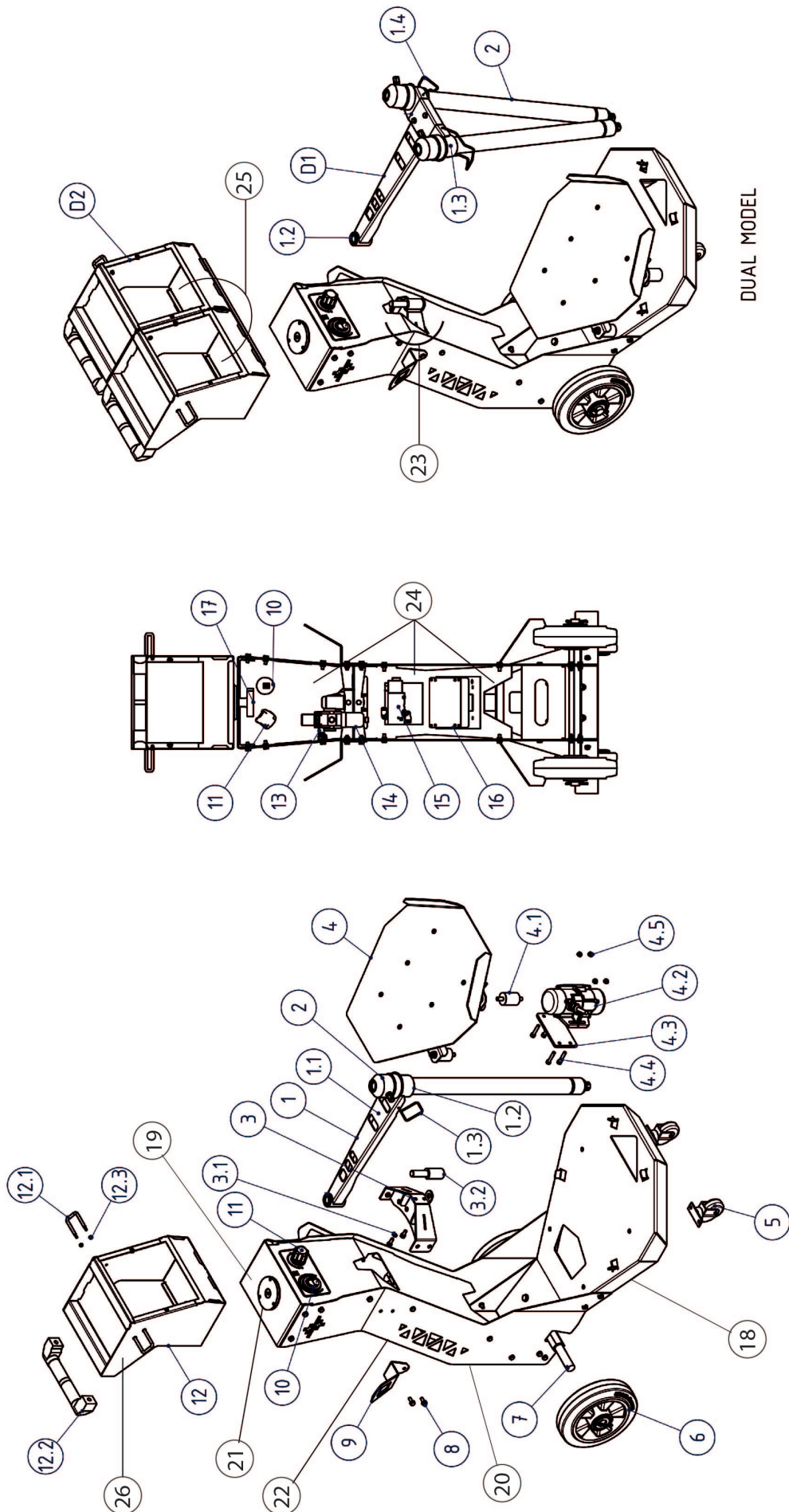
Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	TRTM08282	E-GUN+3 Ø35 CARBON RING	✓	✓
2	B10631003D	E-GUN+3 ELECTRODE BODY	✓	✓
3	TRTM01022	E-GUN+3 FLAT HEAD GROUP CONICAL INSULATOR	✓	✓
4	TRTM01046	E-GUN+3 FLAT CAP	✓	✓
5	B07524503	E-GUN+3 DEFLECTOR HEAD ASSEMBLY SHAFT SET	✓	✓
6	TRTM01048	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	✓	✓



Part #	Order Code	Part Name
1	B07FEED+3	E-FEED+3 INJ INJECTOR
2	PNBE01005	SPRING BODY QUICK CONNECTION 8X6 MM *** Sold as 1 piece.

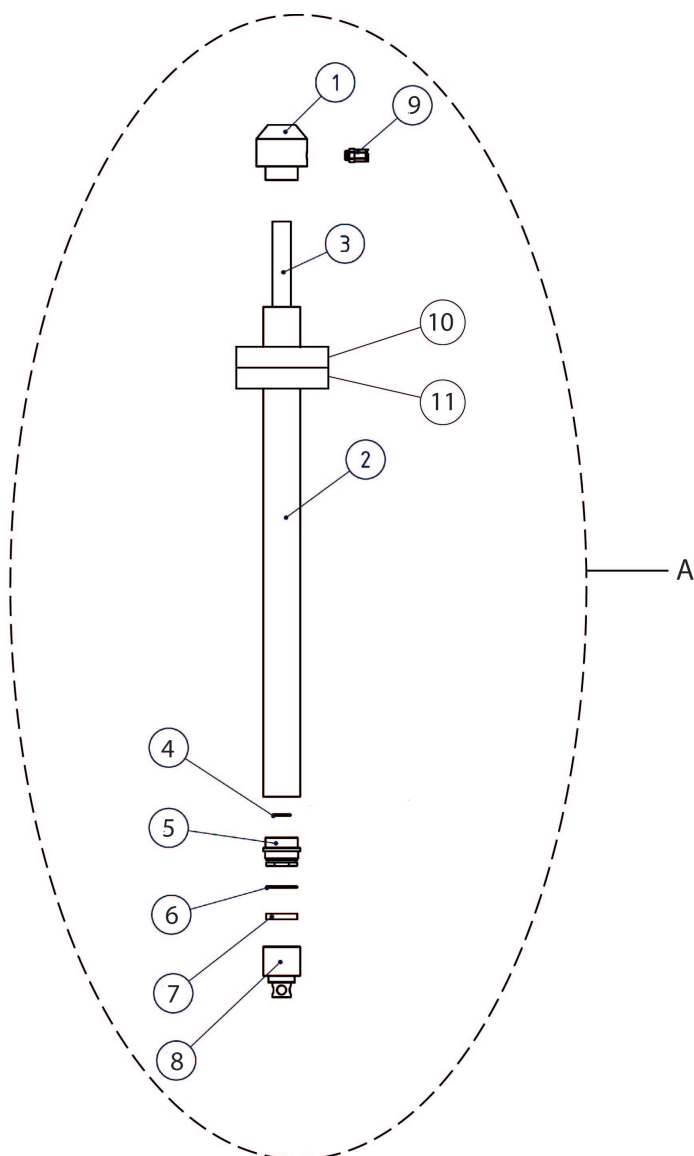


Part #	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	TRTM05035	E-FEED+3 FEMALE QUICK CONNECTION ADAPTER	N/A	N/A
2	B10540005	E-FEED+3 INJECTOR NUT	N/A	✓
3	B07610032	E-FEED+3 INJECTOR HOSE CONNECT COUPLING W/O-RING	✓	✓
3.1	B10640034	E-FEED+3 INJECTOR HOSE CONNECT COUPLING	✓	✓
3.2	IZOR01051	O-RING Ø13X2	✓	✓
4	B07610031	E-FEED+3 INJECTOR NOZZLE W/O-RING	✓	✓
4.1	B10640033	E-FEED+3 INJECTOR NOZZLE	✓	✓
4.2	IZOR01028	O-RING Ø11,1X1,6	✓	✓
5	TRTM05037	E-FEED+3 HOSE COUPLING WASHER Ø19 T1.5 (BLACK)	N/A	N/A
6	ENEM03005	E-FEED+3 INJECTOR BODY	N/A	N/A
7	IZOR01006	O-RING Ø16X2	✓	✓
8	TRTM05036	E-FEED+3 HOSE COUPLING WASHER Ø19 T1.5 (RED)	N/A	N/A
9	B07ENJ135	E-FEED+3 INJECTOR FILTER - COMPLETE	✓	✓
10	B07610030	E-FEED+3 TEFLON BUSHING W/O-RING	✓	✓
10.1	B07610000	E-FEED+3 TEFLON BUSHING	✓	✓
10.2	IZOR01003	O-RING Ø7X1,5	✓	✓

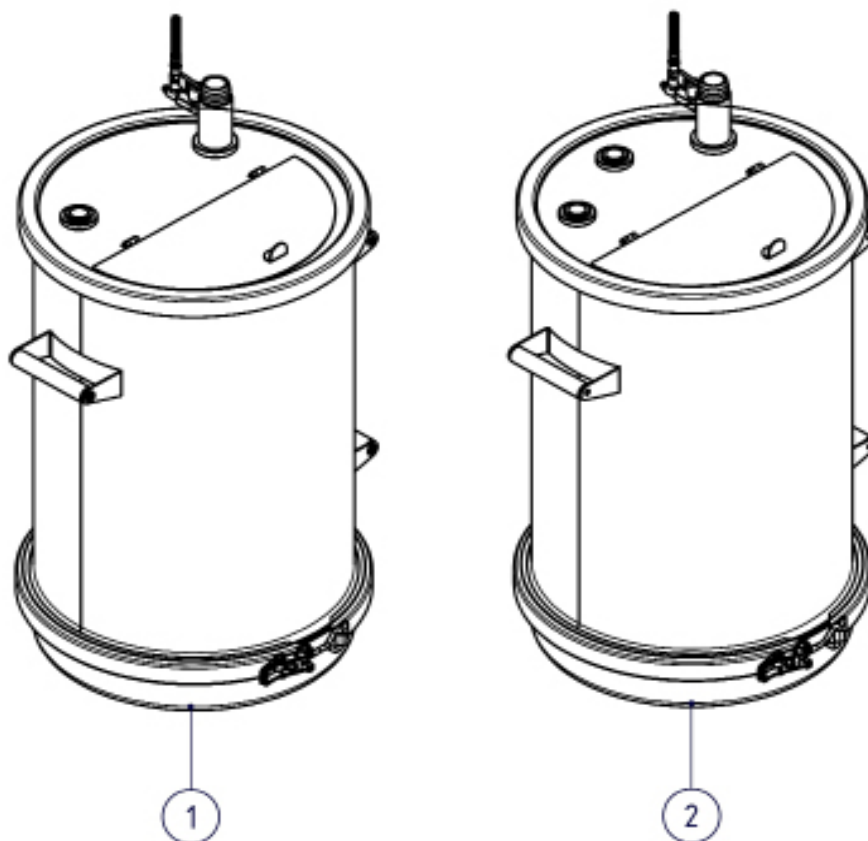


Part No	Order Code	Part Name	Wearing Part
1	B07ECCA011	E-COAT+3 MULTICOLOR SUCTION TUBE ASSEMBLY	N/A
1.2	TRTM03067	E-COAT+3 MULTICOLOR SUCTION TUBE HOLDER BUSHING	N/A
1.3	BEDH13024	E-COAT+3 MULTICOLOR SUCTION TUBE LOCK	N/A
2	B07ECM003+3	E-COAT+3 MULTICOLOR SUCTION TUBE	✓
3	B07ECCA007	E-COAT+3 MULTICOLOR SUCTION TUBE BRACKET ASSSEMBLY	N/A
3.1	BEPL04009	LOCK WASHER	N/A
3.2	TRTM04185	E-COAT+3 MULTICOLOR TUBE ARM HANGER	N/A
4	B06CE20014	E-COAT+3 MULTICOLOR VIBRATION STAND ASSEMBLY	N/A
4.1	AKUA03026	E-COAT+3 MULTICOLOR VIBRATION INSULATOR	N/A
4.2	MPMT03001	E-COAT+3 MULTICOLOR VIBRATION MOTOR Ex II 3D	N/A
4.3	TRTM03037	E-COAT+3 MULTICOLOR VIBRATION MOTOR PATCH BLOCK	N/A
4.4	BECV03030	BOLT M6X30 YHB	N/A
5	AKUA08006	E-COAT+3 MOBILE TROLLEY FRONT WHEEL	N/A
6	AKUA08005	E-COAT+3 MOBILE TROLLEY BACK WHEEL 200X50	N/A
7	TRTM04048	E-COAT+3 MOBILE TROLLEY BACK WHEEL SHAFT	N/A
8	BECV06005	BOLT M6X20 YHB	N/A
9	B06CE20025	E-COAT+3 MOBILE TROLLEY HOSE CABLE HANGER	N/A
10	PNPE07002	MANOMETER Ø40 2,5 BAR	N/A
11	PNPE01002	REGULATOR ¼" 0-3,5 BAR	N/A
12	B07560005	E-COAT+3 MOBILE TROLLEY HEAD	N/A
12.1	AKUA04002	E-COAT+3 MOBILE TROLLEY HEAD GUN HANGER	N/A
12.2	AKUA02001	E-COAT+3 MOBILE TROLLEY HEAD HANDLE	N/A
12.3	BESM02001	NUT M4 FIBER TIGHT	N/A
13	B06CE20017	E-COAT+3 MOBILE TROLLEY REGULATOR BRACKET	N/A
14	PNPE02001	REGULATOR ¼" 0,5-8,5 BAR	N/A
15	PNPE04001	VALVE 3/2 - ¼" Ex II 3D	N/A
16	B07EMC001	E-COAT+3 MULTICOLOR RELAY BOX	N/A
17	AKUA07011	BAKELITE SCREW KNOBS	N/A
18	B07ECCA001	E-COAT+3 MOBILE TROLLEY BASE ASSEMBLY	N/A
19	B07ECCA002	E-COAT+3 MOBILE TROLLEY TOP SHEET GROUP	N/A
20	B07ECCA003	E-COAT+3 MOBILE TROLLEY LEFT SIDE SHEE GROUP	N/A
21	B07ECCA004	E-COAT+3 DEVICE HEAD ROTATION SHEET GROUP	N/A
22	B07ECCA006	E-COAT+3 MOBILE TROLLEY BACK SUPPORT GROUP	N/A
23	B07ECCA005	E-COAT+3 HOPPER BODY GROUP	N/A
24	B07ECCA009	E-COAT+3 MULTICOLOR BODY GROUP	N/A
25	B07ECCA010	E-COAT+3 DUAL HEAD BOTTOM BASE GROUP	N/A
26	B07560005	E-COAT+3 MOBILE TROLLEY CONNECTION HEAD	N/A
D1	B07ECCA012	E-COAT+3 MULTICOLOR DUAL SUCTION TUBE ASSEMBLY	N/A
D2	B07560005D	E-COAT+3 MOBILE TROLLEY DUAL HEAD	N/A

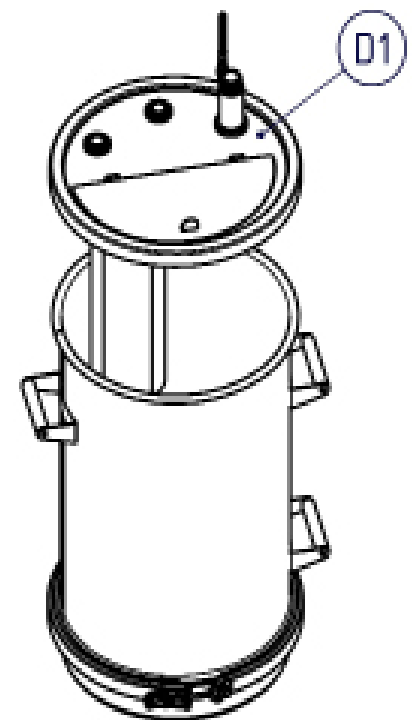
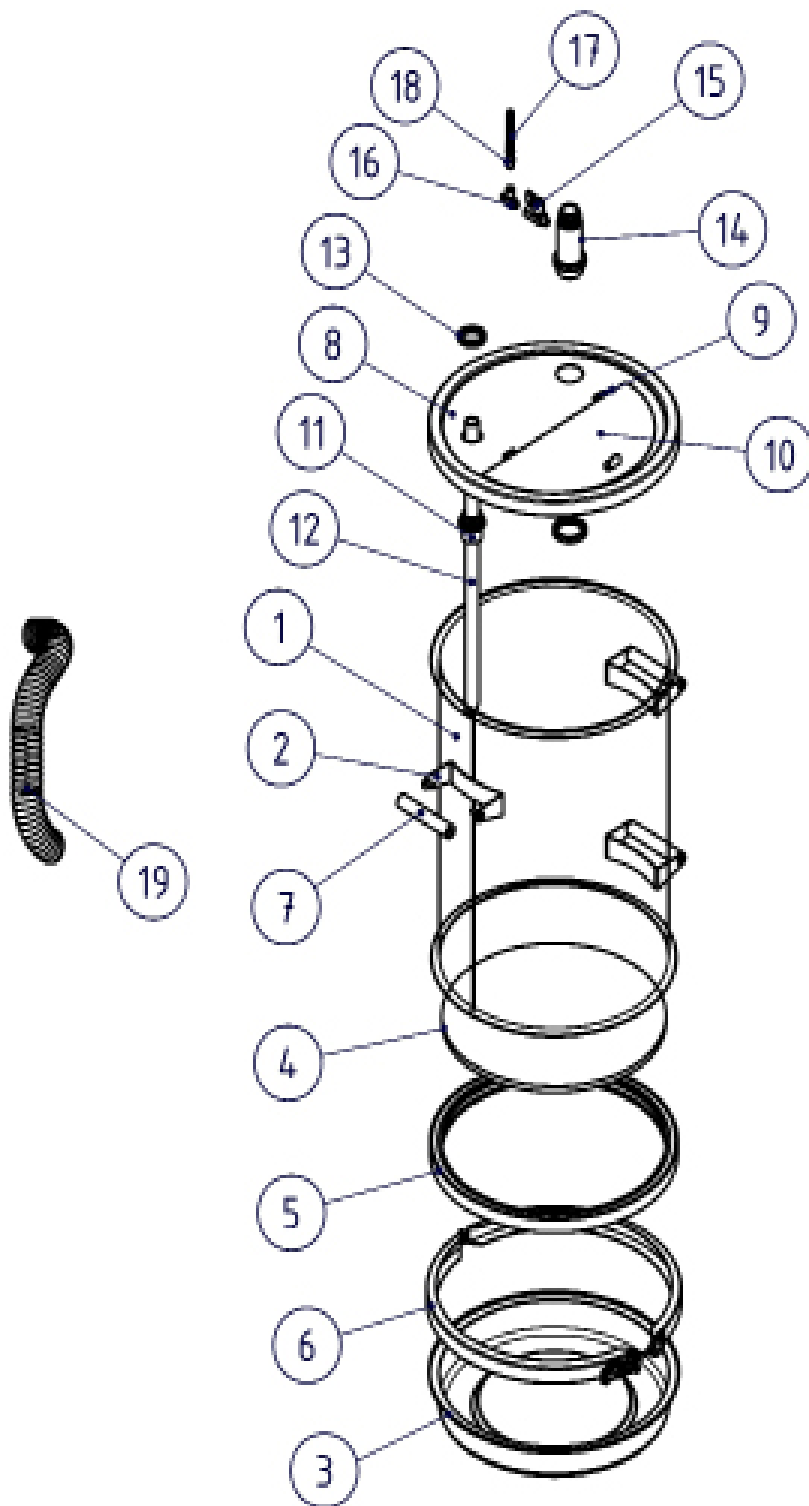
Note: The E-COAT+3 Multicolor Suction Tube seen in number 2 is both the Wearing and Recommended Stock Part.



Part No	Order Code	Part Name
*	B07ECM003+3	E-COAT+3 MULTICOLOR SUCTION TUBE
1	TRTM03022	E-COAT+3 MULTICOLOR SUCTION TUBE TOP LID
2	SCBR08002	E-COAT+3 MULTICOLOR SUCTION TUBE (1) Li560
3	SCBR06006	E-COAT+3 MULTICOLOR SUCTION TUBE (2) Li560
4	IZOR01006	ORING Ø16X2
5	TRTM03024	E-COAT+3 MULTICOLOR SUCTION TUBE ADAPTER BOTTOM BODY
6	IZOR01027	ORING Ø30X2
7	FRFL08007	E-COAT+3 MULTICOLOR SUCTION TUBE SINTER FILTER
8	TRTM03023	E-COAT+3 MULTICOLOR SUCTION TUBE BOTTOM LID
9	PNBE01003	QUICK COUPLING 1/8" MALE
10	TRTM03117	E-COAT+3 MULTICOLOR LOCKING NUT
11	TRTM03116	E-COAT+3 MULTICOLOR LOCKING BODY



Part No	Order Code	Part Name
1	A05EH0050+3	E-HOPP50+3 50 LT STAINLESS POWDER COATING HOPPER
2	A05EH0050D+3	E-HOPP50+3 DUAL 50 LT STAINLESS POWDER COATING HOPPER



DUAL MODEL

Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	B06CE02001	E-HOPP50+3 HOPPER MAIN BODY	N/A	N/A
2	B06CE02004	E-HOPP50+3 HOLDER ASSEMBLY	N/A	N/A
3	SCSC05003	E-HOPP50+3 BOTTOM LID	N/A	N/A
4	FRFL07003	E-HOPP50+3 FLUIDIZATION PLATE	✓	✓
5	IZCS02001	E-HOPP50+3 FLUIDIZATION PLATE GASKET	✓	✓
6	B06CE02003	E-HOPP50+3B BOTTOM LID LOCK	N/A	N/A
7	TRTM04041	E-HOPP50+3 BODY HOLDER	N/A	N/A
8	B10C0003	E-HOPP50+3 TOP LID	N/A	N/A
9	AKUA01001	E-HOPP50+3 TOP LID HINGE	N/A	N/A
10	B06CE02006	E-HOPP50+3 HOPPER LID	N/A	N/A
11	TRTM04045	E-HOPP50+3 INJECTOR CONNECTOR	N/A	N/A
12	SCBR06006	E-HOPP50+3 SUCTION TUBE	✓	✓
13	TRTM04044	E-HOPP50+3 EXHAUST HOSE ADAPTOR CONNECTOR NUT	N/A	N/A
14	TRTM04194	E-HOPP50+3 EXHAUST HOSE ADAPTOR	N/A	N/A
15	HDHE01001	E-HOPP50+3 BALL VALVE	N/A	N/A
16	HDHT01225	E-HOPP50+3 PNEUMATIC THROTTLE VALVE	N/A	N/A
17	PNBE01005	E-HOPP50+3 QUICK COUPLING HOSE CONNECTION	N/A	N/A
18	PNBE01003	E-HOPP50+3 QUICK COUPLING MALE 1/8"	N/A	N/A
19	PNHO05002	E-HOPP50+3 SPIRAL HOSE	✓	✓
D1	B10C0005	E-HOPP50+3 TOP LID DUAL	N/A	N/A

7. Service and Maintenance Table

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

8. Product Life and Warranty

8.1. Product Life

- The economic life of E-COAT+3 PRO 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.

8.2. Warranty and Warranty Conditions

- The control unit 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.
- SİSTEM TEKNİK A.Ş. will not be held responsible for any malfunctions that may occur when grounding conditions are not met.

8.3. Operating Conditions

- Read the user manual before using the gun.
- Only legally allowed people can operate E-COAT+3 PRO.
- Only trained and authorized people can operate E-COAT+3 PRO .
- 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.



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