LARIUS
PAINT SPRAYING EQUIPMENT
www.larius.eu

GB

PLA AIRLESS GUN

Professional extension

PLA SPRAY GUN 250 BAR/MAX

COMPLETE WITH BASE SUPER FAST CLEAN Rif. 18270

CODE	DESCRIPTION
K11421	Airless gun PLA cm 130 swivel M16x1,5
K11420	Airless gun PLA cm 130 swivel 1/4”
K11426	Airless gun PLA cm 180 swivel M16x1,5
K11425	Airless gun PLA cm 180 swivel 1/4”
K11431	Airless gun PLA cm 240 swivel M16x1,5
K11430	Airless gun PLA cm 240 swivel 1/4”

AIRLESS GUN PLA 450 BAR/MAX

CODE	DESCRIPTION
K11446	PLA high pressure cm 240 1/4” + base SFC
K11445	PLA high pressure cm 240 16 x 1,5 + base SFC
K11441	PLA high pressure cm 180 1/4” + base SFC
K11440	PLA high pressure cm 180 16 x 1,5 + base SFC
K11436	PLA high pressure cm 130 1/4” + base SFC
K11435	PLA high pressure cm 130 16 x 1,5 + base SFC

With super fast clean device

Ed. 003 | 07 - 14

GUN PLA

WARNINGS.....
A AIRLESS GUN PLA..... p. 2
B DESCRIPTION..... p. 4
C INSTRUCTIONS OF USE ..... p. 5
D MAINTENANCE ..... p. 5
E REPLACEMNTE OF THE SEALS OF THE SPRAY GUN BODY..... p. 6
F SAFETY RULES..... p. 7
G SPARE PARTS ..... p. 9
Airless gun Pla..... p. 9
Nozzles super fast clean..... p. 9
Super fast-clean..... p.10

WE ADVISE THE USE OF THIS EQUIPMENT ONLY BY PROFESSIONAL OPERATORS.
ONLY USE THIS MACHINE FOR USAGE SPECIFICALLY MENTIONED IN THIS MANUAL.

Thank you for choosing a **LARIUS S.R.L.** product.
As well as the product purchased,
you will receive a range of support services
enabling you to achieve the results desired,
quickly and professionally.

WARNINGS

The table below provides the meaning of the symbols used in this manual in relation to using, earthing, operating, maintaining, and repairing of this equipment.

	Read this operator's manual carefully before using the equipment. An improper use of this machine can cause injuries to people or things. Do not use this machine when under the influence of drugs or alcohol. Do not modify the equipment under any circumstances. Use products and solvents that are compatible with the various parts of the equipment, and read the manufacturer's warnings carefully. See the Technical Details for the equipment given in the Manual. Check the equipment for worn parts once a day. If any worn parts are found, replace them using ONLY original spare parts. Keep children and animals away from work area. Comply with all safety standards.
	It indicates an accident risk or serious damage to equipment if this warning is not followed.
 	Report any risk of chemical reaction or explosion if this warning has not been given. There is a risk of injury or serious lesion related to contact with the jet from the spray gun. If this should occur, IMMEDIATELY contact a doctor, indicating the type of product injected. Do not spray before the guard has been placed over the nozzle and the trigger on the spray gun. Do not put your fingers in the spray gun nozzle. Once work has been completed, before carrying out any maintenance, complete the decompression procedure explained in this manual.

It indicates important recommendations about disposal and recycling process of products in accordance with the environmental regulations.

Report any danger of electric shock if the warning and presence of live electrical parts has not been indicated.
Store in a dry place and do not expose to the rain.
Check that the cables are in good condition.
Switch off the equipment and discharge any electricity before cleaning or maintaining the equipment.

Mark any clamps attached to earth cables.
Use ONLY 3-wire extension cords and grounded electrical outlets.
Before starting work make sure that the electrical system is earthed and that it complies with safety standards.

FIRE AND EXPLOSION HAZARD
Solvent and paint fumes in work area can ignite or explode.
To help prevent fire and explosion:
- Use equipment ONLY in well ventilated area.
- Eliminate all ignition sources, such as pilot lights, cigarettes and plastic drop cloths (potential static arc).
- Ground equipment and conductive objects.
- Use only grounded hoses.
- Do not use trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminium equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.

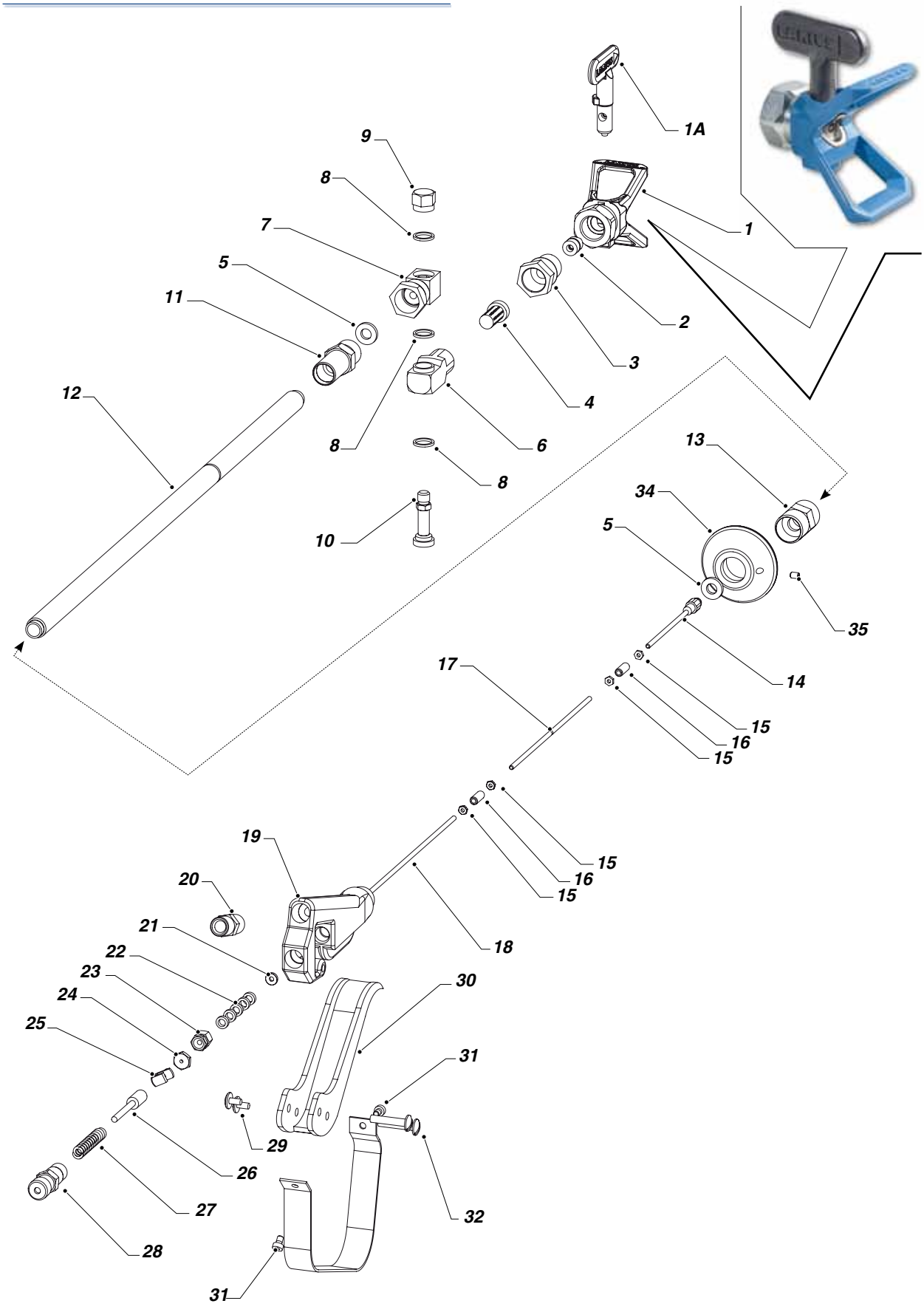
If electrical shocks or discharges are encountered the operation being carried out using the equipment **must be stopped immediately**.
Keep a fire extinguisher at hand in the immediate vicinity of the work area.

INJECTION HAZARD
High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin.
To help prevent injection, always:
- Engage trigger lock when not spraying.
- Do not put your hand over the spray tip. Do not stop or deflect leaks with your hand, body or other.
- Do not point gun at anyone or at any part of the body.
- Never spray without tip guard.
- Do pressure relief if you stop spraying or being servicing sprayer and before any maintenance operations.
- Do not use components rated less than sprayer Maximum Working Pressure.
- Never allow children to use this unit
- Brace yourself; gun may recoil when triggered.

If high pressure fluid pierces your skin, the injury might look like "just a cut", but it is a serious wound! Get immediate medical attention.

It is obligatory to wear suitable clothing as gloves, goggles and face shield.
Wear clothing that complies with the safety standards in force in the country in which the equipment is used.
Do not wear bracelets, earrings, rings, chains, or anything else that may hinder the operator's work.
Do not wear clothing with wide sleeves, scarves, ties, or any other piece of clothing that could get tangled up in moving parts of the equipment during the work, inspection, or maintenance cycles.

A PLA AIRLESS GUN



Pos.	Code	Description
1	18270	Body Super Fast Clean
1A	Tab.	Super fast clean
2	18280	Gasket Super Fast Clean
3	320	Articulated adapter for SFC
4	270	Filtro material
5	11003	Gasket
6	90006	Filter holder
7	90007	Articulated articulated
8	90008	Nylon Gasket
9	90009	Locking nut
10	90010	Retaining pin
11	90042	Sleeve ball seat
12	90014	Tube pla cm 130
12	90015	Tube pla cm 180
12	90016	Tube pla cm 240
13	90043	Articulated
14	11005	Punch
15	90025	Nut M3 steel
16	90021	Bush
17	90022	Extension punch pla cm 130
17	90023	Extension punch pla cm 180
17	90024	Extension punch pla cm 240

Pos.	Code	Description
18	90026	Rod for Handgrip
19	90027	Handgrip
20	96206	Articulated tubo ap
21	90031	Supports seal ring
22	90032	Gasket
23	90033	Nut throat packing
24	90034	Nut
25	90035	Guide
26	90028	Shaft
27	90029	Spring
28	90030	Adjustment ring
29	90036	Screw Trigger
30	90037	Trigger
31	96025	Screw cuff M4x6
32	90039	Trigger pin
33	90040	Safety for hand
34	90017	Ring Handgrip
35	90018	Wheat M4x6
36	90050	Articulated fully articulated

IMPORTANT

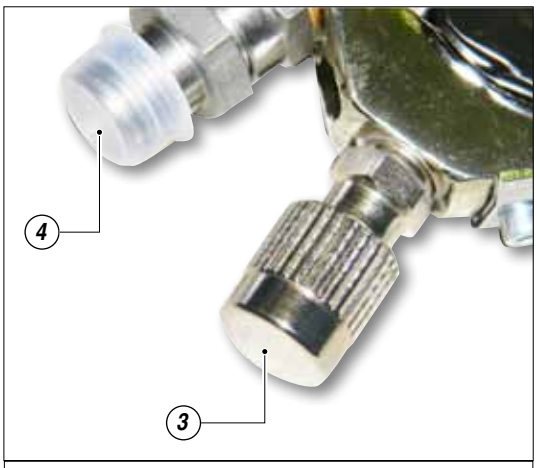
- **NEVER** place your hands or fingers in front of the nozzle

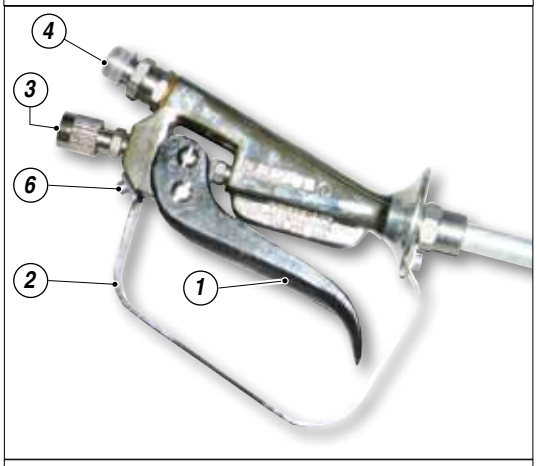
- **NEVER** point the gun at yourself or anyone else

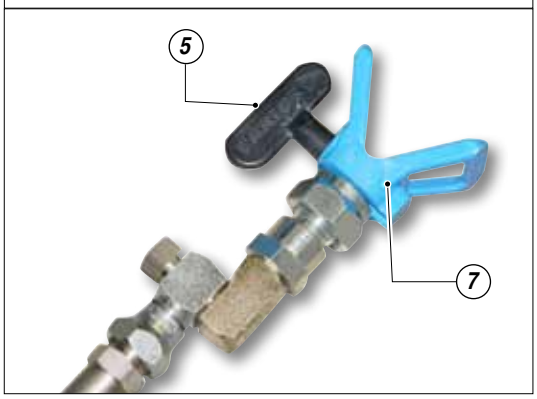
- Discharge the pressure in the gun and use the appropriate safety precautions when the operator is not working

- **DO NOT** cut or tamper with the safety mechanisms on the device.

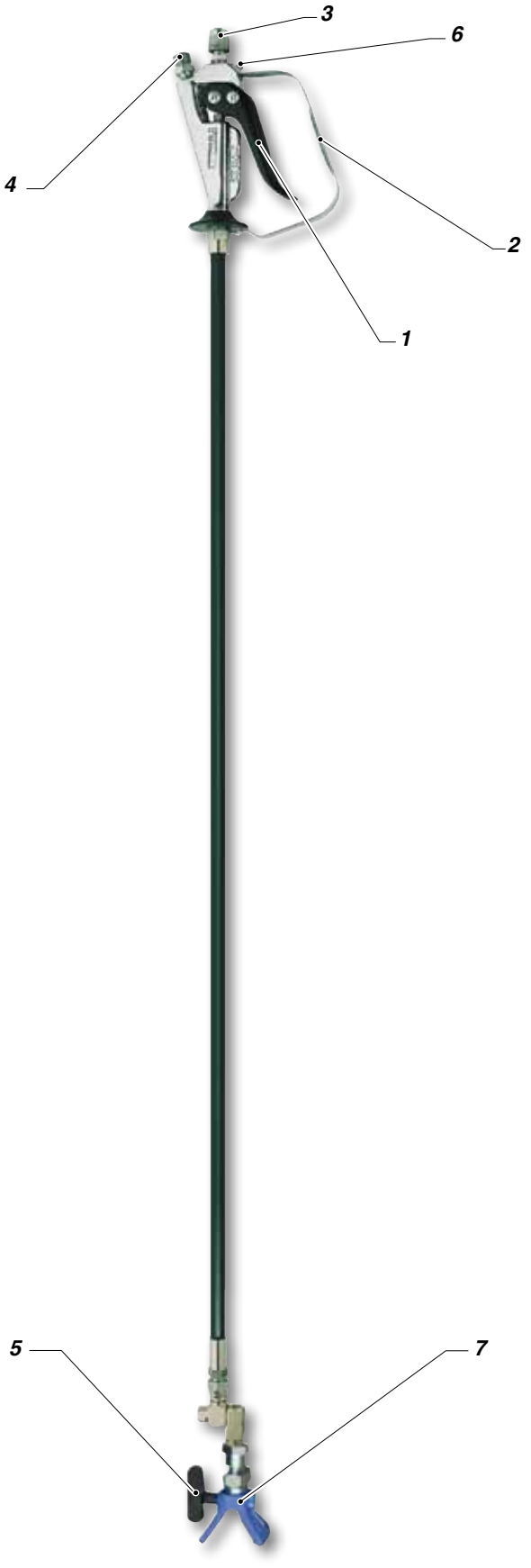
B DESCRIPTION







Pos.	Description
1	Trigger
2	Fingers protection
3	Safety
4	Fitting for high pressure hose
5	Nozzle (see table)
6	Ground wire connection screw
7	Body super fast clean

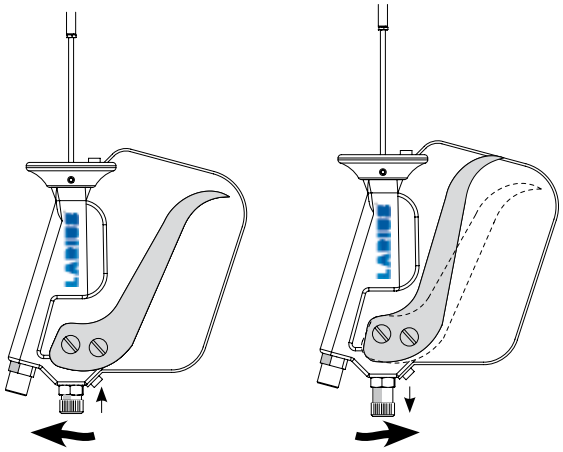


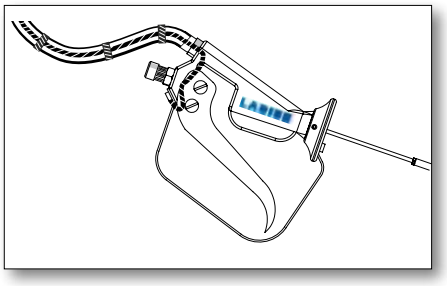
C INSTRUCTIONS OF USE

Before connecting the spray gun to the pump, select the nozzle type, which fits to the kind of work you're beginning (see table).

SAFETY LOCK

Be sure that the trigger is locked, by rotating the safety lock (all spray guns get out from Larius safety locked).





Make sure that the spray fan of the nozzle is in the correct position (horizontal or vertical), apt for the kind of work you're beginning.
Connect the high pressure hose to the spray gun. The correct installation should be done by using a hose hawing a grounding connection, otherwise it is possible to connect a grounding wire to the screw 31 and fix it all along the hose itself, by means of a tape or clamps.
Control that all the threaded fittings both of spray gun and of pump are perfecity tightened.
Keeping the safety lock inserted, set the spray gun under pressure and, keeping the nozzle far away from you or any other person, unlock the safety lock, press on the trigger and begin lo spray.
In order to avoid accidents, whenever you must leave the spray gun unattended, lock the safety lock.
At the end of the work clean spray gun and pump with the solvent apt for the product, which is being used.

D SERVICING

Before proceeding with any servicing, be sure that the spray gun has no pressure inside and that the product is finished.

PUNCH SETTING

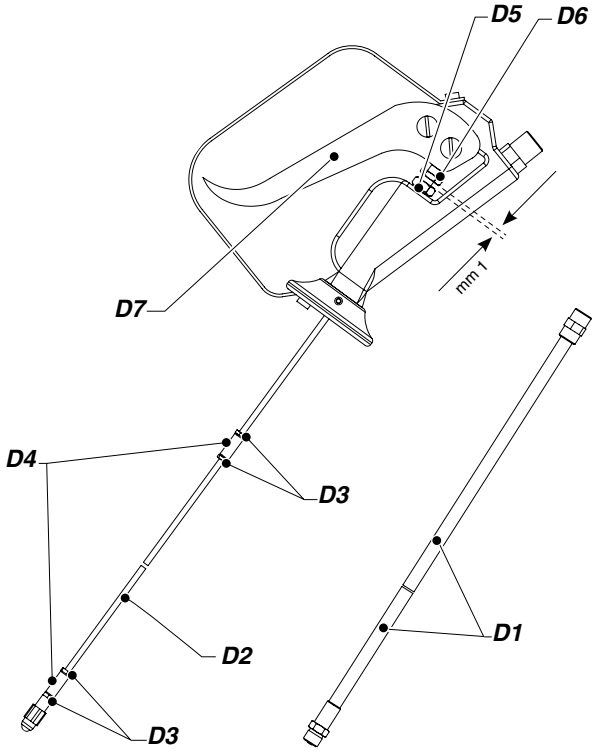
For getting a correct working the punch (**D2**) moved by the trigger (**D7**) should open of roughly 3 mm. This setting must be done by acting on the nut (**D3**) screwing or unscrewing the punch (**D2**) in the sleeve (**D4**) and locking then the nuts (**D3**). After having reassambied the pipe (**D1**) on the spray gun, control that the distance between the nut (**D6**) and the screw (**D5**) is about one millimeter. This guarantees that the setting has been correcty done. During the setting, release the safety lock, in order to allow the movement of the rod.

LEAKS

It any leak of product should occur, it is sufficient to lock the screw (**D5**) which has the function of a stuffing box.

REPLACEMENT OF THE PUNCH

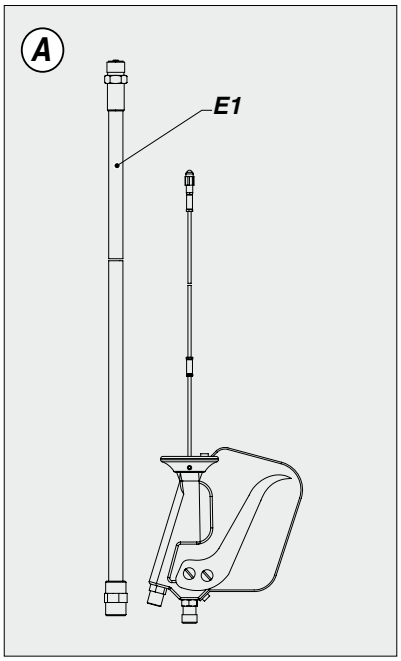
Unscrew the pipe (**D1**) of the spray gun. Take out the rod from the pipe anda control the punch (**D2**). In order to replace it, you need to unscrew it, after having loosened the nut (**D3**). Proceed then to the setting, as described before. During the operations of disassembly and reassembly of the rod in the pipe, keep the trigger open (safety locked), in order to avoid damages to the rod, in the case that this latter forces on the ball seat in the sleeve.

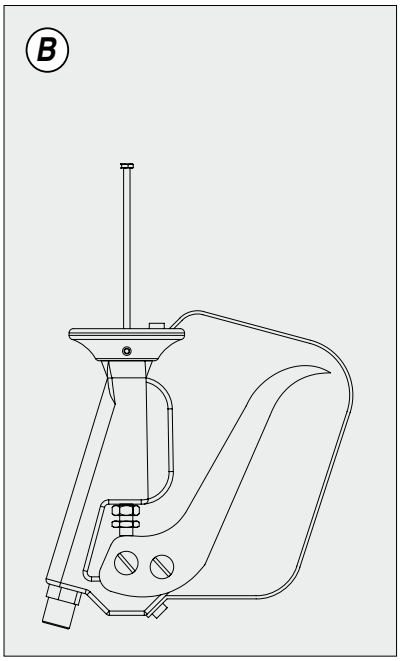


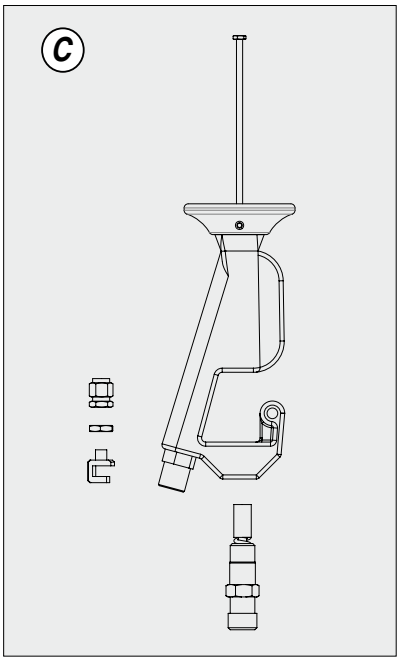
E REPLACEMENT OF THE SEALS OF THE SPRAY GUN BODY

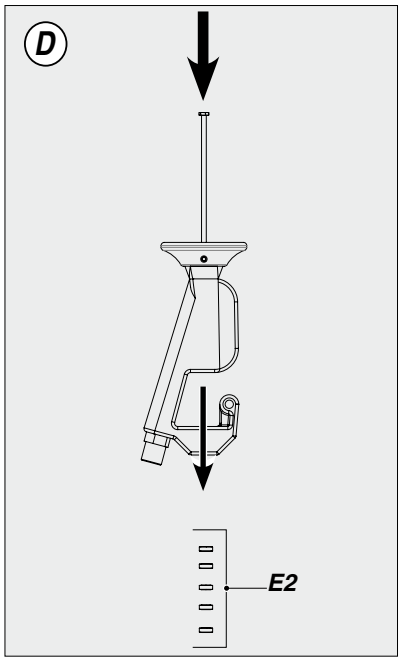
A) Take out the pipe (**E1**)
B) Remove the rod with the punch.
C) Remove all the control part of the rod (trigger, guard, safety, etc.)
D) A light pressure on the rod will allow the extraction of the seals (**E2**)
E) During the disassembly of the safety lock (**E5**) it is necessary to unlock it completely (clockwise) and unscrew the complete part from the gun body.

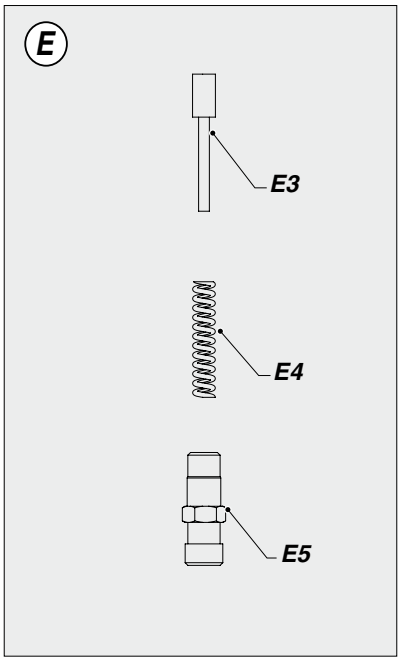
Pay attention to the light residual pressure on the main spring (**E4**), it is therefore advisable not to expose any part of your body near to it.
During the reassembly, make sure that the safety nut (**E5**) is locked, in order to make the insertion and the assembly in the gun body easier.
A light pressure will be necessary to make this possible.











F SAFETY RULES

- THE EMPLOYER SHALL TRAIN ITS EMPLOYEES ABOUT ALL THOSE RISKS STEMMING FROM ACCIDENTS, ABOUT THE USE OF SAFETY DEVICES FOR THEIR OWN SAFETY AND ABOUT THE GENERAL RULES FOR ACCIDENT PREVENTION IN COMPLIANCE WITH INTERNATIONAL REGULATIONS AND WITH THE LAWS OF THE COUNTRY WHERE THE PLANT IS USED.
- THE BEHAVIOUR OF THE EMPLOYEES SHALL STRICTLY COMPLY WITH THE ACCIDENT PREVENTION AND ALSO ENVIRONMENTAL REGULATIONS IN FORCE IN THE COUNTRY WHERE THE PLANT IS INSTALLED AND USED.

Read carefully and entirely the following instructions before using the product. Please save these instructions in a safe place.

The unauthorised tampering/replacement of one or more parts composing the machine, the use of accessories, tools, expendable materials other than those recommended by the manufacturer can be a danger of accident.
The manufacturer will be relieved from tort and criminal liability.

- KEEP YOUR WORK PLACE CLEAN AND TIDY. DISORDER WHERE YOU ARE WORKING CREATES A POTENTIAL RISK OF ACCIDENTS.
- ALWAYS KEEP PROPER BALANCE AVOIDING UNUSUAL STANCE.
- BEFORE USING THE TOOL, ENSURE THERE ARE NOT DAMAGED PARTS AND THE MACHINE CAN WORK PROPERLY.
- ALWAYS FOLLOW THE INSTRUCTIONS ABOUT SAFETY AND THE REGULATIONS IN FORCE.
- KEEP THOSE WHO ARE NOT RESPONSIBLE FOR THE EQUIPMENT OUT OF THE WORK AREA.
- **NEVER** EXCEED THE MAXIMUM WORKING PRESSURE INDICATED.
- **NEVER** POINT THE SPRAY GUN AT YOURSELVES OR AT OTHER PEOPLE. THE CONTACT WITH THE CASTING CAN CAUSE SERIOUS INJURIES.
- IN CASE OF INJURIES CAUSED BY THE GUN CASTING, SEEK IMMEDIATE MEDICAL ADVICE SPECIFYING THE TYPE OF THE PRODUCT INJECTED. **NEVER** UNDERVALUE A WOUND CAUSED BY THE INJECTION OF A FLUID.
- ALWAYS DISCONNECT THE SUPPLY AND RELEASE THE PRESSURE IN THE CIRCUIT BEFORE PERFORMING ANY CHECK OR PART REPLACEMENT OF THE EQUIPMENT.
- NEVER MODIFY ANY PART IN THE EQUIPMENT. CHECK REGULARLY THE COMPONENTS OF THE SYSTEM.
REPLACE THE PARTS DAMAGED OR WORN.
- TIGHTEN AND CHECK ALL THE FITTINGS FOR CONNECTION BETWEEN PUMP, FLEXIBLE HOSE AND SPRAY GUN BEFORE USING THE EQUIPMENT.
- ALWAYS USE THE FLEXIBLE HOSE SUPPLIED WITH STANDARD KIT. THE USE OF ANY ACCESSORIES OR TOOLING OTHER THAN THOSE RECOMMENDED IN THIS MANUAL, MAY CAUSE DAMAGE OR INJURE THE OPERATOR.
- THE FLUID CONTAINED IN THE FLEXIBLE HOSE CAN BE VERY DANGEROUS. HANDLE THE FLEXIBLE HOSE CAREFULLY. DO NOT PULL THE FLEXIBLE HOSE TO MOVE THE EQUIPMENT. NEVER USE A DAMAGED OR A REPAIRED FLEXIBLE HOSE.

The high speed of the product flowing in the hose can create static electricity through discharges and sparks. It is suggested to earth the equipment.
The pump is earthed through the earth cable of the supply.
The gun is earthed through the high pressure flexible hose.
All the conductors near the work area must be earthed.

- NEVER SPRAY OVER FLAMMABLE PRODUCTS OR SOLVENTS IN CLOSED PLACES.
- NEVER USE THE TOOLING IN PRESENCE OF POTENTIALLY EXPLOSIVE GAS.

Always check the product is compatible with the materials composing the equipment *(pump, spray gun, flexible hose and accessories)* with which it can come into contact. Never use paints or solvents containing halogen hydrocarbons *(as the methylene chloride)*.
If these products come into contact with aluminium parts can provoke dangerous chemical reactions with risk of corrosion and explosion.

IF THE PRODUCT TO BE USED IS TOXIC, AVOID INHALATION AND CONTACT BY USING PROTECTION GLOVES, GOGGLES AND PROPER FACE SHIELDS.

TAKE PROPER SAFETY MEASURES FOR THE PROTECTION OF HEARING IN CASE OF WORK NEAR THE PLANT.

- WHENEVER YOU STOP DISPENSING, EVEN FOR A MOMENT, ALWAYS SET THE GUN TRIGGER LOCK. FULLY RELEASE THE TRIGGER AND ROTATE THE TRIGGER LOCK FORWARD (*see page 9*).
- PAY THE UTMOST ATTENTION WHEN CLEANING OR CHANGING THE FLUID NOZZLE. IF THE NOZZLE CLOGS WHILE DISPENSING, FULLY RELEASE THE TRIGGER IMMEDIATELY. ALWAYS FOLLOW THE PRESSURE RELIEF PROCEDURE, BELOW, BEFORE WIPING OFF BUILD-UP AROUND THE NOZZLE OR REMOVING THE NOZZLE TO CLEAN IT.
- DO NOT DIRECT THE SPRAYGUN UPWARDS DURING CLEANING.

- DO NOT RUB THE SPRAYGUN WITH CLOTHS SOAKED IN SOLVENT.

- DO NOT IMMERSE THE SPRAYGUN IN SOLVENT.

- DO NOT USE METAL TOOLS TO CLEAN THE NOZZLES, SINCE THEY MAY BE SCRATCHED AND CAUSE UNEVEN SPRAYING.

G SPARE PARTS

KIT

CODE	DESCRIPTION
40225	Kit PLA airless gun seals
40220	Kit airless gun PLA
40394	Kit series pre-filter mesh nozzle

SPARE PARTS

CODE	DESCRIPTION
90050	Swivel
270	Filter 100 mesh
271	Filter 60 mesh

Base Super Fast Clean
Art. 18270

Nozzles Super Fast Clean
Art. 18280 steel seal

Super Fast Clean complete
from size 7-20

NOZZLES SUPER FAST CLEAN

Compatible with all Airless
Nozzles SUPER FAST CLEAN + 1 Stainless steel seal Ref 18280
From size 7-20 to 51-80

see table

SIZE	FLOW L/M200 BAR
SFC 7-20	* 0,26
SFC 7-40	* 0,26
SFC 9-20	* 0,35
SFC 9-40	* 0,35
SFC 11-20	* 0,55
SFC 11-40	* 0,55
SFC 13-20	* 0,80
SFC 13-40	* 0,80
SFC 13-60	* 0,80
SFC 15-20	* 1,10
SFC 15-40	* 1,10

SIZE	FLOW L/M200 BAR
SFC 15-60	* 1,10
SFC 17-20	* 1,41
SFC 17-40	* 1,41
SFC 17-60	* 1,41
SFC 19-20	* 1,77
SFC 19-40	* 1,77
SFC 19-60	* 1,77
SFC 21-20	* 2,15
SFC 21-40	* 2,15
SFC 21-60	* 2,15
SFC 23-20	* 2,57

SIZE	FLOW L/M200 BAR
SFC 23-40	* 2,57
SFC 23-60	* 2,57
SFC 25-20	* 2,90
SFC 25-40	* 2,90
SFC 25-60	* 2,90
SFC 27-20	* 3,50
SFC 27-40	* 3,50
SFC 27-60	* 3,50
SFC 27-80	* 3,50
SFC 29-20	* 4,30
SFC 29-40	* 4,30

SIZE	FLOW L/M200 BAR
SFC 29-60	* 4,30
SFC 29-80	* 4,30
SFC 31-40	* 4,83
SFC 31-60	* 4,83
SFC 31-80	* 4,83
SFC 33-40	* 5,50
SFC 33-60	* 5,50
SFC 33-80	* 5,50
SFC 35-40	* 6,00
SFC 37-40	* 6,70
SFC 39-40	* 7,10

SIZE	FLOW L/M200 BAR
SFC 39-60	* 7,10
SFC 39-80	* 7,10
SFC 41-40	* 8,10
SFC 43-40	* 9,67
SFC 43-60	* 9,67
SFC 43-80	* 9,67
SFC 45-60	* 9,80
SFC 47-60	* 10,70
SFC 51-40	* 12,70
SFC 51-60	* 12,20
SFC 51-80	* 12,20

SUPER FAST-CLEAN

*Code-nozzle angle	Ø inch	Ø mm	Product type	Filter recom.
SFC07-20	0,007"	0,18	Clear and	Red
SFC07-40			pigmented coats,	200 M
SFC09-20	0,009"	0,23	thin enamels.	
SFC09-40				
SFC11-20	0,011"	0,28	Nitro,	Giallo
SFC11-40			synthetic	100 M
SFC13-20	0,013"	0,33	and polyurethane	
SFC13-40			paints	
SFC13-60				
SFC15-20	0,015"	0,38	Antirust	
SFC15-40				
SFC15-60				
SFC17-20	0,017"	0,43		
SFC17-40				
SFC17-60				
SFC19-20	0,019"	0,48	Coatings,	White
SFC19-40			zinc	60 M
SFC19-60			inorganic	
SFC21-20	0,021"	0,53	water paints	
SFC21-40				
SFC21-60				
SFC23-20	0,023"	0,58		
SFC23-40				
SFC23-60				
SFC25-20	0,025"	0,63	Thixotropic,	
SFC25-40			stucco spray,	
SFC25-60			high solids	
SFC27-20	0,027"	0,68	paints with glue,	
SFC27-40			fillers.	
SFC27-60				
SFC27-80				
SFC29-20	0,029"	0,74		
SFC29-40				
SFC29-60				
SFC29-80				
SFC31-40	0,031"	0,79		
SFC31-60				
SFC31-80				
SFC33-40	0,033"	0,83		
SFC33-60				
SFC33-80				
SFC35-40	0,035"	0,89		
SFC37-40	0,037"	0,94		
SFC39-40	0,039"	1,00		
SFC39-60				
SFC39-80				
SFC41-40	0,041"	1,05		Green
SFC43-40	0,043"	1,10		30 M
SFC43-60				
SFC43-80				
SFC45-60	0,045"	0,15		
SFC47-60	0,47"	1,20		
SFC51-60	0,051"	1,30		
SFC51-80				

NOZZLE SUPER FAST-CLEAN

Art. 18280: GASKET

Art. 18270: SUPER FAST-CLEAN base UE 11/16x16

- Compatible with all Airless guns
- Rapid remplacement of working nozzle
- Rapid safe cleaning
- Maximum working pressure 350 bar (5075 psi)
- Long lasting carbon-tungsten insert
- Excellent finish

MANUFACTURER:

LARIUS

23801 CALOLZIOCORTE - LECCO - ITALY - Via Antonio Stoppani, 21
Tel. (39) 0341/62.11.52 - Fax (39) 0341/62.12.43
E-mail: larius@larius.com - Internet http://www.larius.com

DIRECT LINE

CUSTOMERS TECHNICAL SERVICE
Tel. (39) 0341/621256
Fax (39) 0341/621234