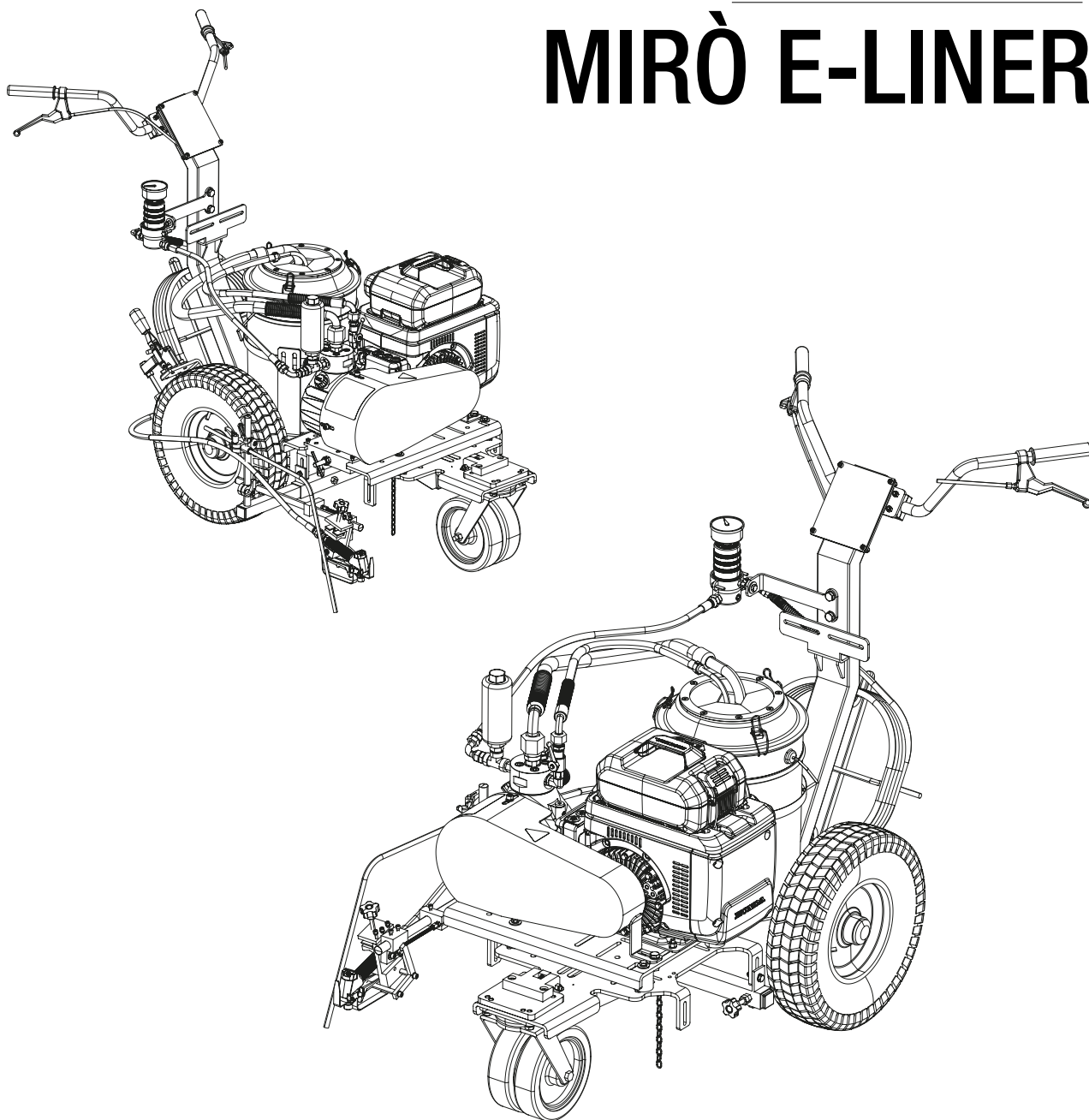



www.larius.com


Professional electric airless diaphragm
road marking machines

MIRÒ E-LINER



IT https://www.larius.com/wp-content/uploads/MIRO_ELINER_I.pdf
EN https://www.larius.com/wp-content/uploads/MIRO_ELINER_UK.pdf

LA431B01	MIRÒ E-LINER 23 L 1 BATTERY
LA432B01	MIRÒ E-LINER 23 L 2 BATTERIES
LA431B11	MIRÒ E-LINER 50 L 1 BATTERY
LA431B21	MIRÒ E-LINER 50 L 2 BATTERIES

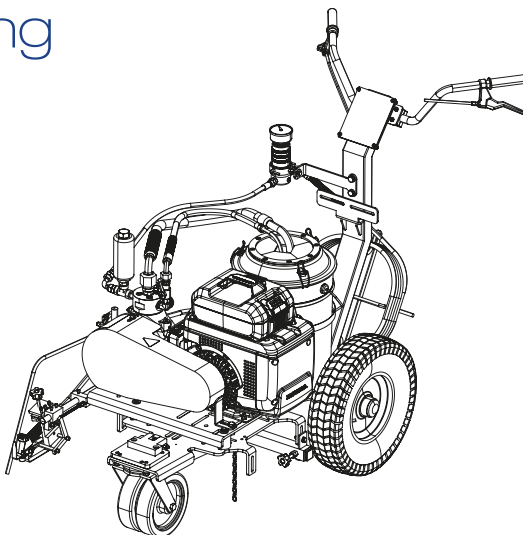
Page intentionally left blank

The ideal choice for achieving professional performance.

WELL PROVEN TECHNICAL QUALITY FOR ANY ON-GROUND MARKING APPLICATION

The airless line markers successfully join product performance with operator requirements and allow the marking and the maintenance of any kind of pavement lines on roads, motorways, airports, pedestrian crossings, cycle paths, yards and wherever is required by the Highway Code with regards to horizontal road signs, guaranteeing perfect lines on different surfaces.

The airless technology provides the high pressure spraying of the paint through a nozzle having centesimal dimensions as compared to the traditional low pressure spraying in which the paint flow is atomized through the air contribution.



Advantages of use

Net and clear lines on any kind of pavement with one coat only.

With a single coat the line is defined evenly: the line made by airless spraying is linear, clean-cut and marked thanks to the flat cut nozzle and without the jagged due to the turbulences caused by air.

Reduction of Over spray.

The airless operated marking guarantees the absence of the classic "Overspray", that is the dispersion of paint particles which is typical in the traditional air painting.

This translates, further than in a saving of paint, in a better protection for health of the operator and for environment.

Saving of paint up to 30%.

Thanks to the absence of Overspray almost all of the used product is applied on the surface without any waste.

Reduction of the vibrations.

The reduction of the vibrations ensures the best in industry quality of lines.

The paint dries quickly.

The airless operation requires that filtered paint specifically formulated for airless application is used, this means, by itself, even paint, smooth and uniform texture which will not return any crust nor will become neither jelly-like nor thick.

The paint holds tightly on any kind of pavement, with an excellent visibility and resistance to wear caused both by traffic and weather elements.

High quality paints guarantee a faster application speed, a better durability of the visibility of the line and a pleasant aesthetic result.

Reflective bead application.

Reflective beads can be applied using a gravity dispenser operated by the same command which operates the paint gun. The spheres automatically fall onto the

freshly marked line. No paints with pre-mixed beads can be used.

50 litre non-stick hopper.

Thanks to the big capacity of the hopper marking times are extended thanks to the absence of frequent interruptions to perform colour changes.

Template works and curved marking.

The gun can be released from its support in just a few seconds and, thanks to the 10 meters pipe it is connected to, it allows any template work, on walls as well.

The front wheel helps to mark lines close to the kerb and to mark arches and curves.

Intuitive use by the operator.

The operator commands are located right on the handlebar to adjust the operation of the line marker in the most handy way.

Optional equipment.

Airless line markers can be equipped basing on the different needs of the operator for offering a dedicated solution for any marking need.

Easy cleaning and maintenance.

Cleaning airless line markers is quick thanks to the absence of pressurized tanks to be cleaned and thus colour change times are extremely short both if using the can or the non stick paint tank. The high pressure of the airless line marker clears the spraying area from dirt and so it does not require that the ground is previously cleaned.

A regular cleaning at the end of the work is sufficient to keep the machine in perfect efficiency, even after prolonged standing periods.

The Super Fast Clean airless nozzles allow that the nozzle is cleaned with a simple rotating movement, without any need to detach it.

This manual is to be considered as an English language translation of the original manual in Italian. The manufacturer shall bear no responsibility for any damages or inconveniences that may arise due to the incorrect translation of the instructions contained within the original manual in Italian.

Due to a constant product improvement programme, the factory reserves the right to modify technical details mentioned in this manual without prior notice.

MIRÒ E-LINER

Professional electric airless diaphragm road marking machines

INDEX

A	WARNING	6
B	TRANSPORT AND UNPACKING.....	7
C	CONDITIONS OF GUARANTEE.....	7
D	SAFETY RULES	7
E	OPERATION PRINCIPLE	8
F	TECHNICAL DATA.....	10
G	DESCRIPTION OF THE EQUIPMENT.....	12
H	SETTING-UP	17
I	REGULATIONS	22
J	OPERATION	25
K	PAINTING OPERATIONS.....	27
L	CLEANING AT THE END OF THE WORK.....	27
M	GENERAL MAINTENANCE.....	28
N	ROUTINE MAINTENANCE.....	28
O	CORRECT PROCEDURE OF DECOMPRESSION.....	32
P	TROUBLESHOOTING	33
	SPARE PARTS.....	34
Q	HYDRAULIC UNIT REF.LA18986.....	35
R	FILTER GROUP REF.LA18401.....	41
S	POSITIONING UNIT WITH ELECTRIC MOTOR AND BATTERY REF.LA18400	42
T	HIGH PRESSURE GUN AT 250.....	42
U	COMPLETE 50L TANK REF.LA4895.....	45
V	COMPLETE 23L TANK REF. LA4890.....	46
W	COMPLETE FRAME REF. LA4874.....	48
X	COMPLETE STEERING UNIT REF. LA4876	51
	DECLARATION OF CONFORMITY	53

**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 **SAMOA** 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.

A 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.
   	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. - Do not form connections or switch light switches on or off if the air contains inflammable fumes. • 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.
	• It indicates wound and finger squashing risk due to movable parts in the equipment. • Tenersi lontano dalle parti in movimento. • Do not use the equipment without the proper protection. • Before any inspection or maintenance of the equipment, carry out the decompression procedure explained in this manual, and prevent any risk of the equipment starting unexpectedly.
 	• Report any risk of chemical reaction or explosion if this warning has not been given. • (IF PROVIDED) 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. • (IF PROVIDED) Do not spray before the guard has been placed over the nozzle and the trigger on the spray gun. • (IF PROVIDED) Do not put your fingers in the spray gun nozzle. • Once work has been completed, before carrying out any maintenance, complete the decompression procedure.
	• It indicates important recommendations about disposal and recycling process of products in accordance with the environmental regulations.
    	• 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 grounded and that it complies with safety standards. • High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. • To help prevent injection, always: - (IF PROVIDED) Engage trigger lock when not spraying. - (IF PROVIDED) Do not put your hand over the spray tip. Do not stop or deflect leaks with your hand, body or other. - (IF PROVIDED) Do not point gun at anyone or at any part of the body. - (IF PROVIDED) 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 - (IF PROVIDED) 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.

B TRANSPORT AND UNPACKING

- The packed parts should be handled as indicated in the symbols and markings on the outside of the packing.
- Before installing the equipment, ensure that the area to be used is large enough for such purposes, is properly lit and has a clean, smooth floor surface.
- The user is responsible for the operations of unloading and handling and should use the maximum care so as not to damage the individual parts or injure anyone.
To perform the unloading operation, use only qualified and trained personnel (truck and crane operators, etc.) and also suitable hoisting equipment for the weight of the installation or its parts. Follow carefully all the safety rules.
The personnel must be equipped with the necessary safety clothing.
- The manufacturer will not be responsible for the unloading operations and transport to the workplace of the machine.
- Check the packing is undamaged on receipt of the equipment. Unpack the machine and verify if there has been any damage due to transportation.
In case of damage, call immediately the manufacturer and the Shipping Agent.
All the notices about possible damage or anomalies must arrive timely within 8 days at least from the date of receipt of the plant through Registered Letter to the Shipping Agent and to the manufacturer.



The disposal of packaging materials is a customer's competence and must be performed in accordance with the regulations in force in the country where the plant is installed and used. It is nevertheless sound practice to recycle packaging materials in an environment-friendly manner as much as possible.

C CONDITIONS OF GUARANTEE



The conditions of guarantee do not apply in the following situations:

- improper washing and cleaning of components causing malfunction, wear or damage to the equipment or any of its parts;
- improper use of the equipment;
- use that does not conform with applicable national legislation;
- incorrect or faulty installation;
- modifications, interventions and maintenance that have not been authorised by the manufacturer;
- use of non-original spare parts or parts that do not correspond to the specific model;
- total or partial non-compliance with the instructions provided.

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



The high speed of the product in the flexible 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 power supply. The gun is earthed through the high pressure flexible hose. All the conductors near the work area must be earthed.



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.



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.



Never attempt to tamper with the calibre of instruments.

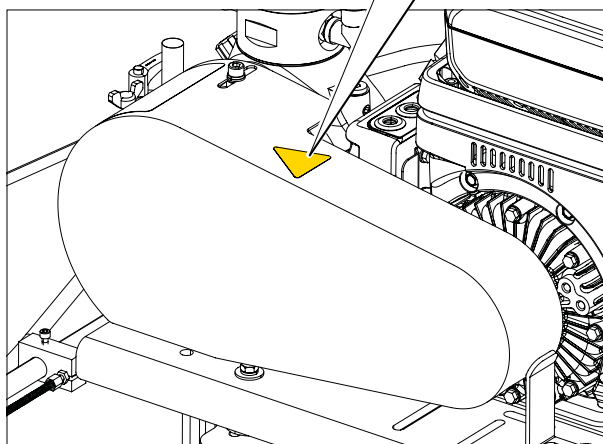
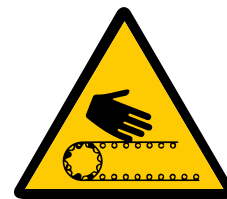


Fig. 1

E OPERATION PRINCIPLE

The **MIRÒ E-LINER** equipment is defined as a diaphragm pump line striper.

A diaphragm pump is used for high-pressure painting without the aid of air (hence the term “airless”). The equipment operates by means of an electric motor (1) [battery-powered (2)] that drives the diaphragm pump.

The diaphragm, once in operation, suctions the product through a valve and pushes it, compressing it toward the spray gun on which a nozzle is mounted. A hydraulic valve located at the top of the hydraulic head allows for the regulation and control of the material pressure exiting the pump.

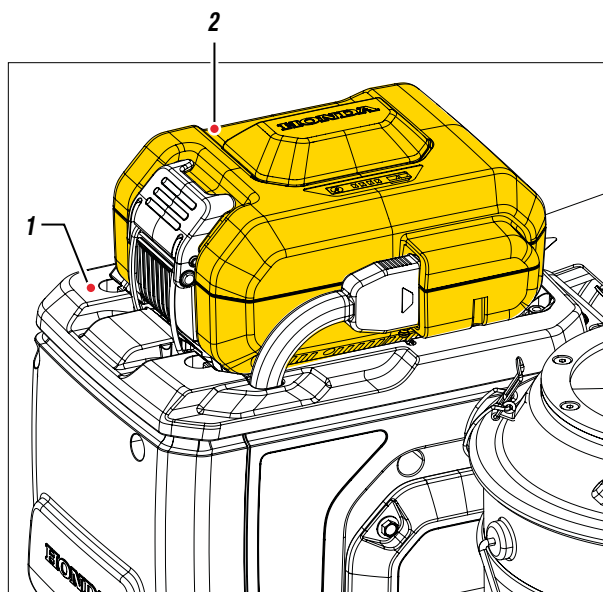


Fig. 1

The **MIRÒ E-LINER** is a compact, efficient professional line striper that, thanks to its capabilities, delivers high performance when used for the restoration and maintenance of road markings.

The total absence of exhaust gas emissions (fumes) allows the machine to be used not only in urban contexts but also in enclosed environments (such as underground parking lots, tunnels, or warehouses), ensuring maximum operator safety and full compliance with environmental regulations.

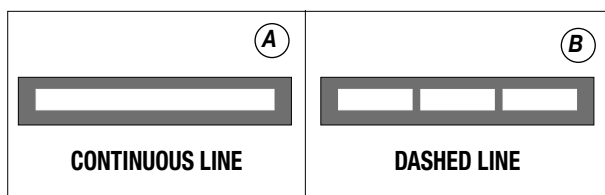
Since the machine is based on airless design, paint atomization occurs without the aid of air; therefore, overspray is eliminated, resulting in high-quality lines with sharp, well-defined edges and uniform paint distribution.

The possibility of performing a quick color change results in faster execution, leading to a 30% increase in productivity.

The control area provides the possibility to:

- Operate the spray gun;
- Engage / disengage the front steering wheel;
- This type of equipment is capable of striping one line at a time in a single color.

The line can be continuous (A) or dashed (B) (by manually closing the spray gun using the specific lever located on the handlebar), depending on the job requirements.



The airless manual spray gun is mounted on an adjustable support. It is possible to change the spray width by adjusting the height of the spray gun or the nozzle.

It is also possible to intervene manually to:

- Adjust the working pressure;
- Increase the engine RPM.

MIRÒ E-LINER is ideal for small striping and maintenance jobs.



Use water or non-refractive solvent filtered paint specifically designed for airless application.

La tracciatura a funzionamento airless ha numerosi e dimostrati benefici rispetto ai traccialinee con i serbatoi sotto pressione che sono obsoleti rispetto alla tecnologia airless.

Airless line-marking guarantees:

- Decreased Environmental Impact;;
- Decreased drying time.

The paint dries quickly and the line is defined in a uniform manner with a single coat. The airless function requires the use of filtered paint which is specifically designed for airless application. This means that the paint is homogeneous, of a smooth and uniform consistency and will not form crusts, nor will it become gelatinous or thick. With this airless line-marker, the paint adheres firmly to all types of pavement, with optimal visibility, and is resistance to wear caused both by traffic as well as atmospheric agents.

In the **MIRÒ E-LINER** model, the paint is loaded directly into the non-stick material tank (available in 23-liter or 50-liter sizes). In this way, cleaning and maintenance operations are facilitated, also making the color change easier.

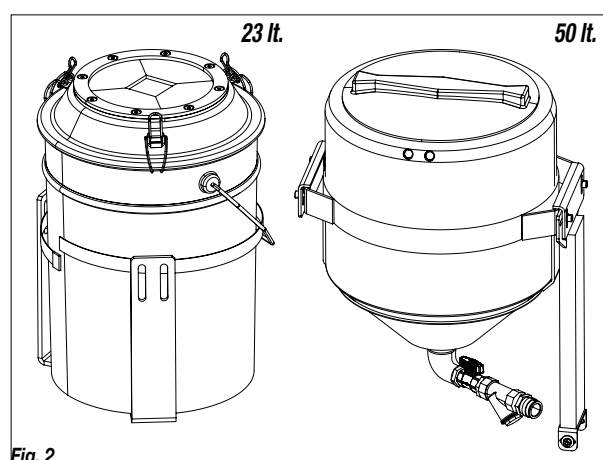


Fig. 2

The line-marker is equipped with a 360° pivoting frontal wheel which even increases the agility of the larger models. High yield, high efficiency, high versatility.

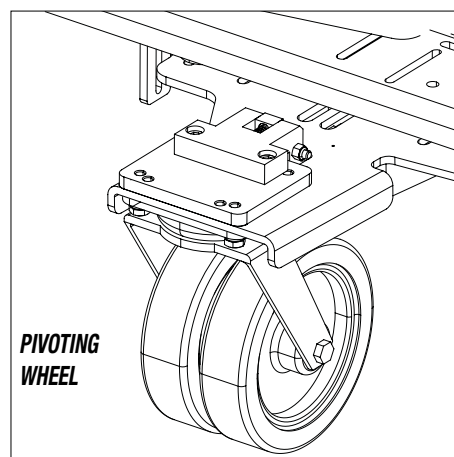


Fig. 3

This line-marker utilises non-premixed paints. This allows it to achieve about 30% more yield with respect to standard line-markers. Every model is also an airless spray gun which can be used in the construction/decoration sector together with washable products, enamels, breathable paints and flooring resins.

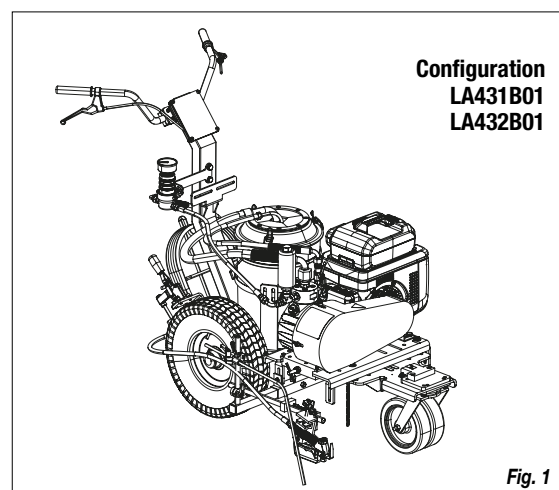
A vast assortment of accessories is available to satisfy every customer demand.

F TECHNICAL DATA

MIRÒ E-LINER	
Max. pressure	220 bar
Max. flow rate	2,2 - l/m
Electric motor power	1,8 Kw
Honda battery power	0,72 kWh
Electric motor battery life	10.0 Ah
Charging temperature range	from 5° to 30°C
Full battery recharge time	40 minutes
Airless paint tank capacity	23 l paint can - 50 l gravity tank
Dimensions	140 x 84 x 128
Weight	120 kg
Airless spray gun	AT 250
Materials	Water or solvent paint without suspended particles
Line type	1 colour
	Continuous - Dashed
	Width from 5 to 30 cm

SECTORS OF USE

- Internal logistic marking in all areas where line strippers with petrol engine motor are off-limits
- Roads - Highways
- Galleries - Road tunnels
- Cycle runway
- Outdoor and underground parking
- Sports circuits
- Public and private areas
- Airports



MACHINE CONFIGURATION								
Part No	Battery No	Manual push	23 l Paint can	50 l Gravity tank	Airless flexible hose	AT250 Airless Manual Gun	Airless nozzle holder	Super fast clean airless nozzles
LA431B01	1	•	•	—	N°1 Code LA35015 Ø 1/4"-M16x1,5-10m	N°1 PART No. LA11210 M16 x 1,5 fitting	N°1 Part No. LA260001	N°1 LA260411 N°1 LA260413 N°1 LA260415
LA432B01	2	•	•	—	N°1 Code LA35015 Ø 1/4"-M16x1,5-10m	N°1 PART No. LA11210 M16 x 1,5 fitting	N°1 Part No. LA260001	N°1 LA260411 N°1 LA260413 N°1 LA260415
LA431B11	1	•	—	•	N°1 Code LA35015 Ø 1/4"-M16x1,5-10m	N°1 PART No. LA11210 M16 x 1,5 fitting	N°1 Part No. LA260001	N°1 LA260411 N°1 LA260413 N°1 LA260415
LA432B21	2	•	—	•	N°1 Code LA35015 Ø 1/4"-M16x1,5-10m	N°1 PART No. LA11210 M16 x 1,5 fitting	N°1 Part No. LA260001	N°1 LA260411 N°1 LA260413 N°1 LA260415

MIRÒ E- LINER series included: filter with pressure gauge, recirculation hose, battery charger and tools box.

ACCESSORIES	
Part No.	Description
LA35015	High pressure hose Ø 1/4" - M16 x 1,5 fitting - 10 m
LA11200	AT250 high pressure manual spray gun
LA11210	AT250 manual airless spray gun - M16x1,5 inlet swivel
LA18270	Europe 11/16" W high pressure nozzle holder
LASFC	Super Fast Clean. Airless spray gun. From 11-20 to 51-80
LATSC	Top spraying clean. Airless spray gun. From 11-20 to 51-80

ACCESSORIES	
Part No.	Description
LA18245	50 l gravity tank + Cover
LA200621	Battery
LA200622	Battery recharge

KITS	
Part No.	Description
LA4909	50 l gravity tank to 23 l can conversion kit
LA4910	23 l can to 50 l gravity tank conversion kit

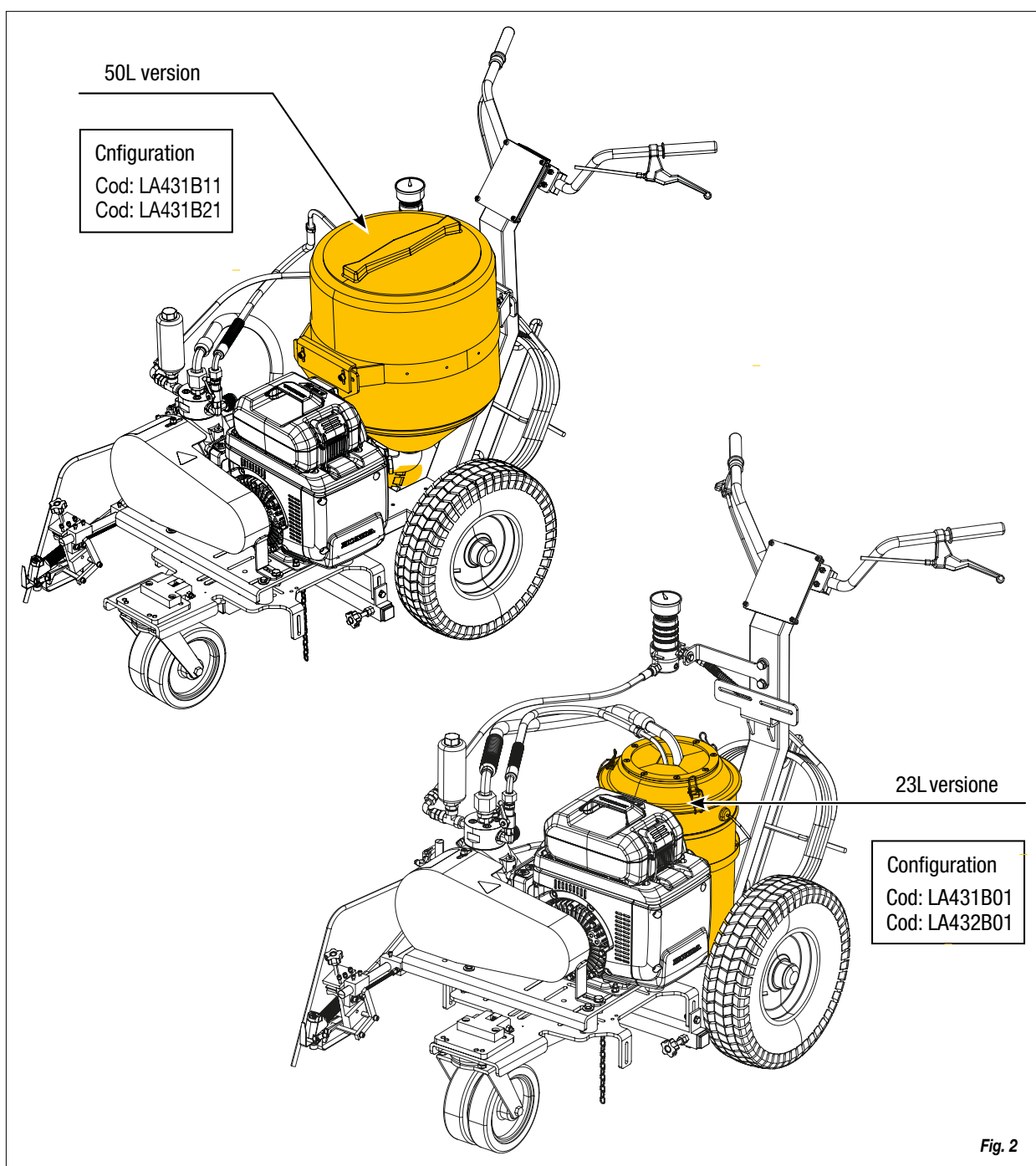


Fig. 2

G DESCRIPTION OF THE EQUIPMENT

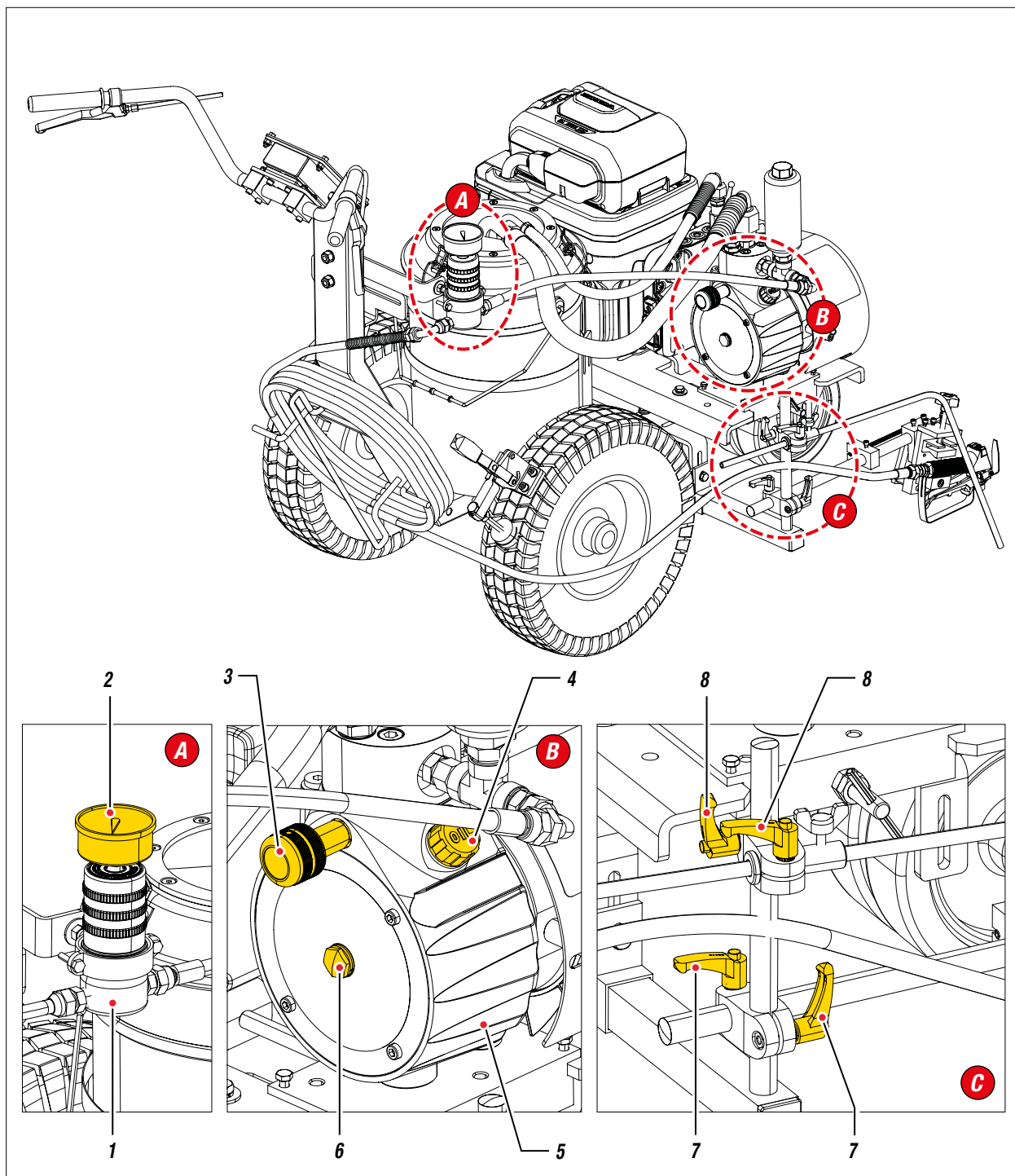


Fig. 1

Pos.	Description
1	Product filter
2	Pressure gauge
3	Pressure regulation valve
4	Hydraulic oil filling cap

Pos.	Description
5	Pumping unit
6	Oil level liht
7	Spray gun adjustment handle
8	Pointer adjustment handle

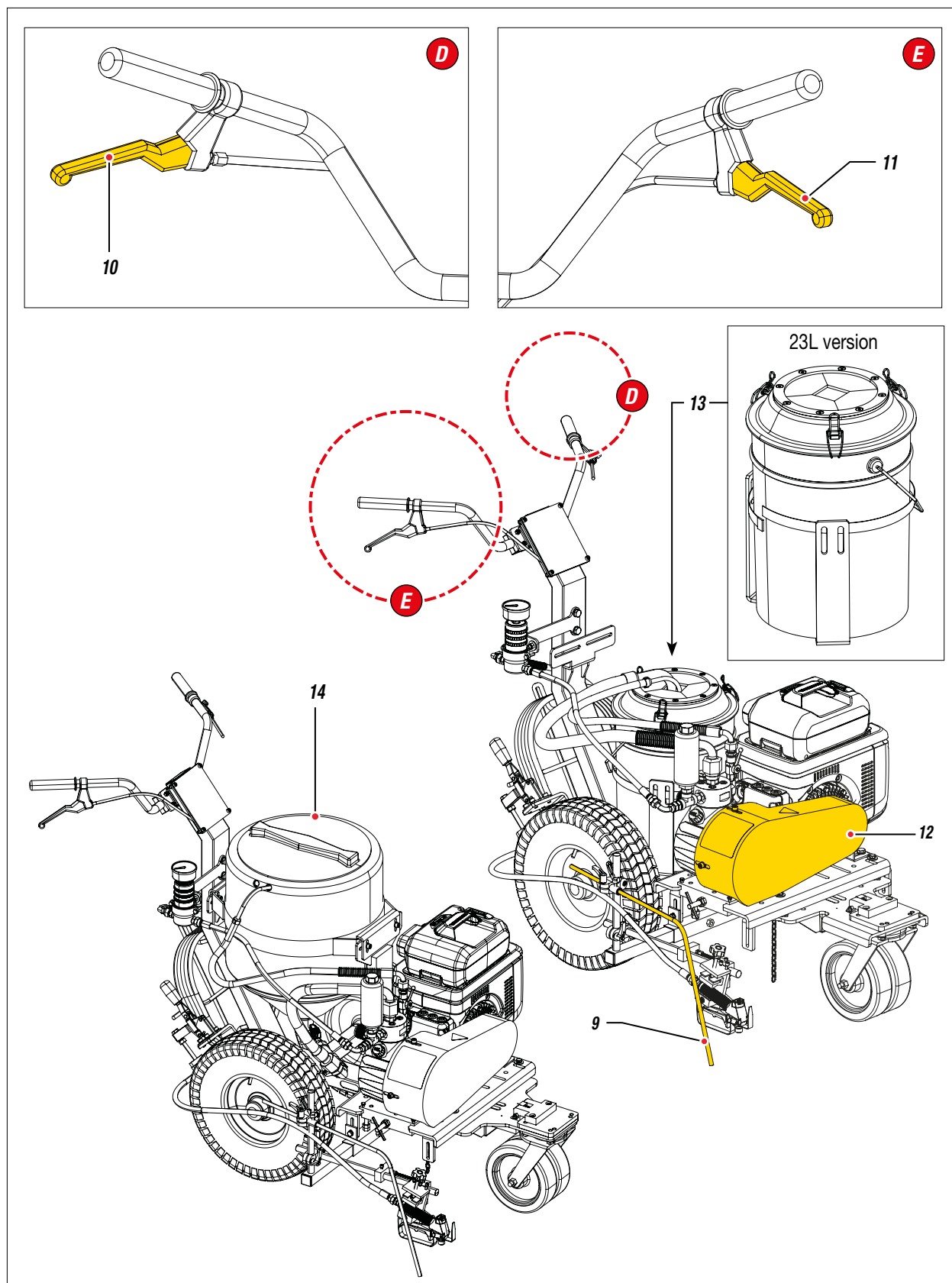


Fig. 2

Pos.	Description
9	Pointer
10	Directional wheel lock/release lever
11	Gun operating lever

Pos.	Description
12	Motor belt protection guard
13	Lt. 23 tank
14	Lt. 50 tank

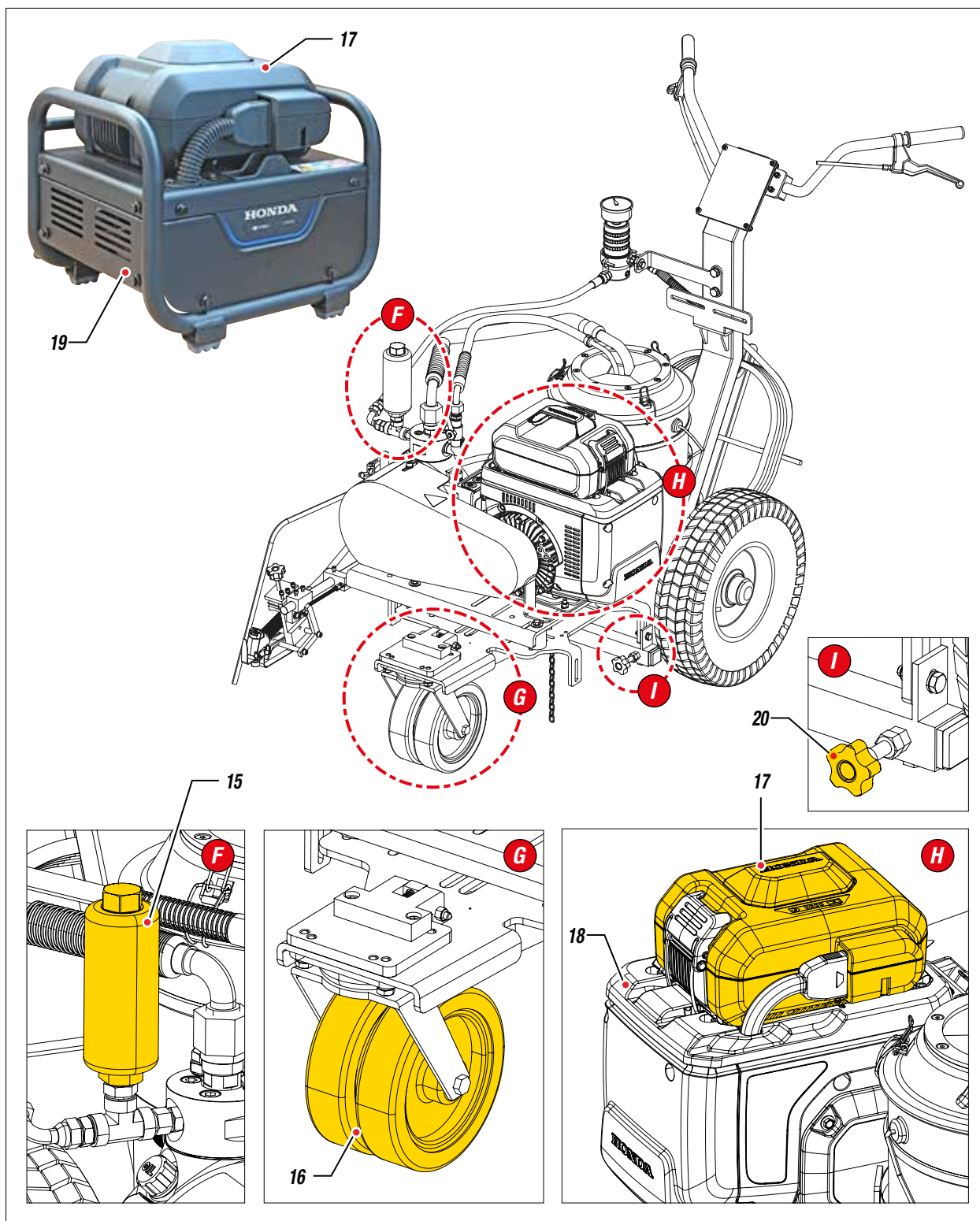


Fig. 3

Pos.	Description
15	Flow compensator
16	Pivoting wheel
17	Battery

Pos.	Description
18	Electric motor
19	Battery charger
20	Spray gun arm adjustment knob

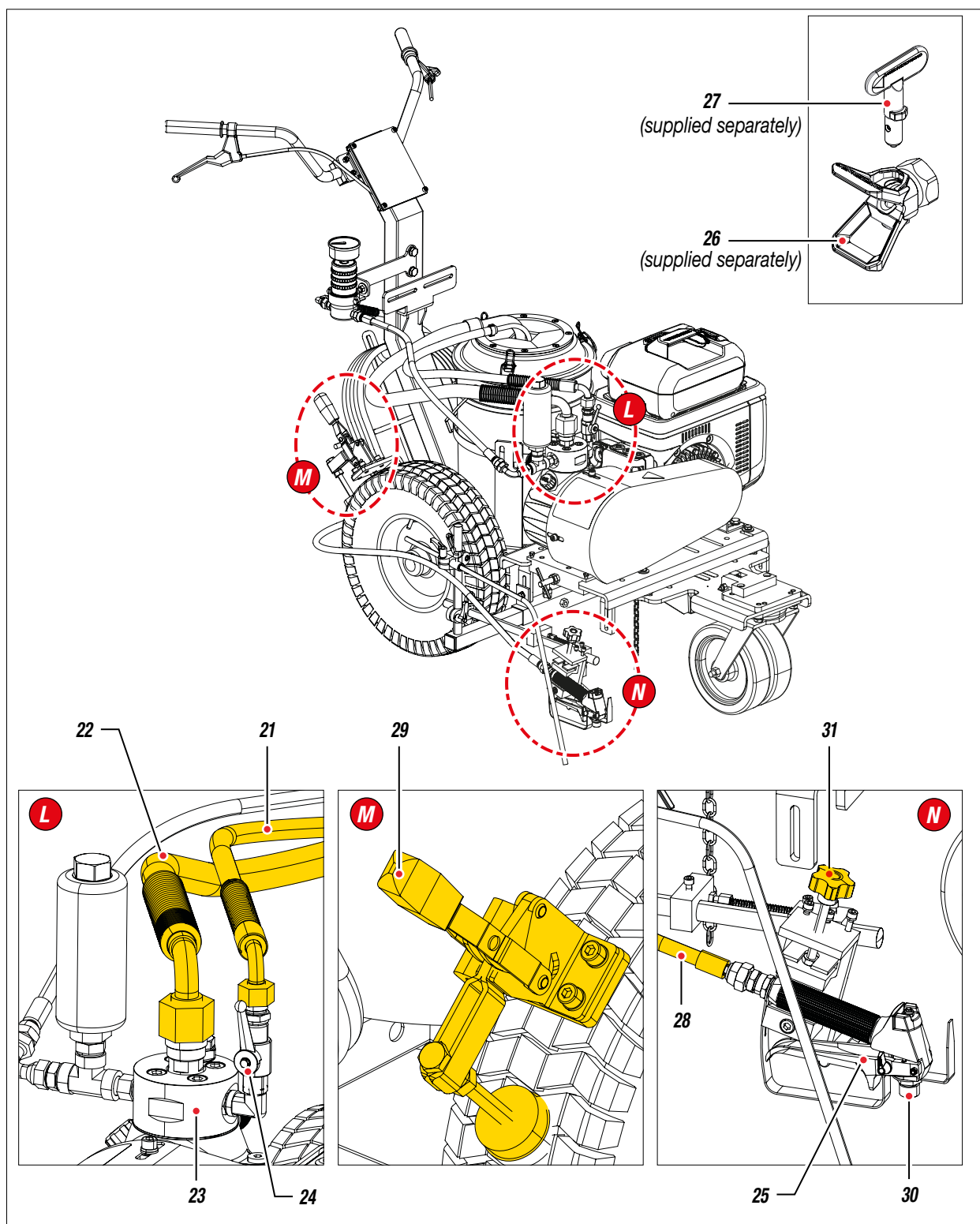


Fig.4

Pos.	Description
21	Recirculation tube
22	Product feeding tube
23	Colour unit
24	Recirculation valve
25	AT250 gun
26	Tip guard (supplied separately)

Pos.	Description
27	Nozzle (supplied separately) - (ref. page 42)
28	Gun feeding tube - (ref. page 42)
29	Brake
30	Spray nozzle fitting - (Ref. page 42)
31	Gun securing knob

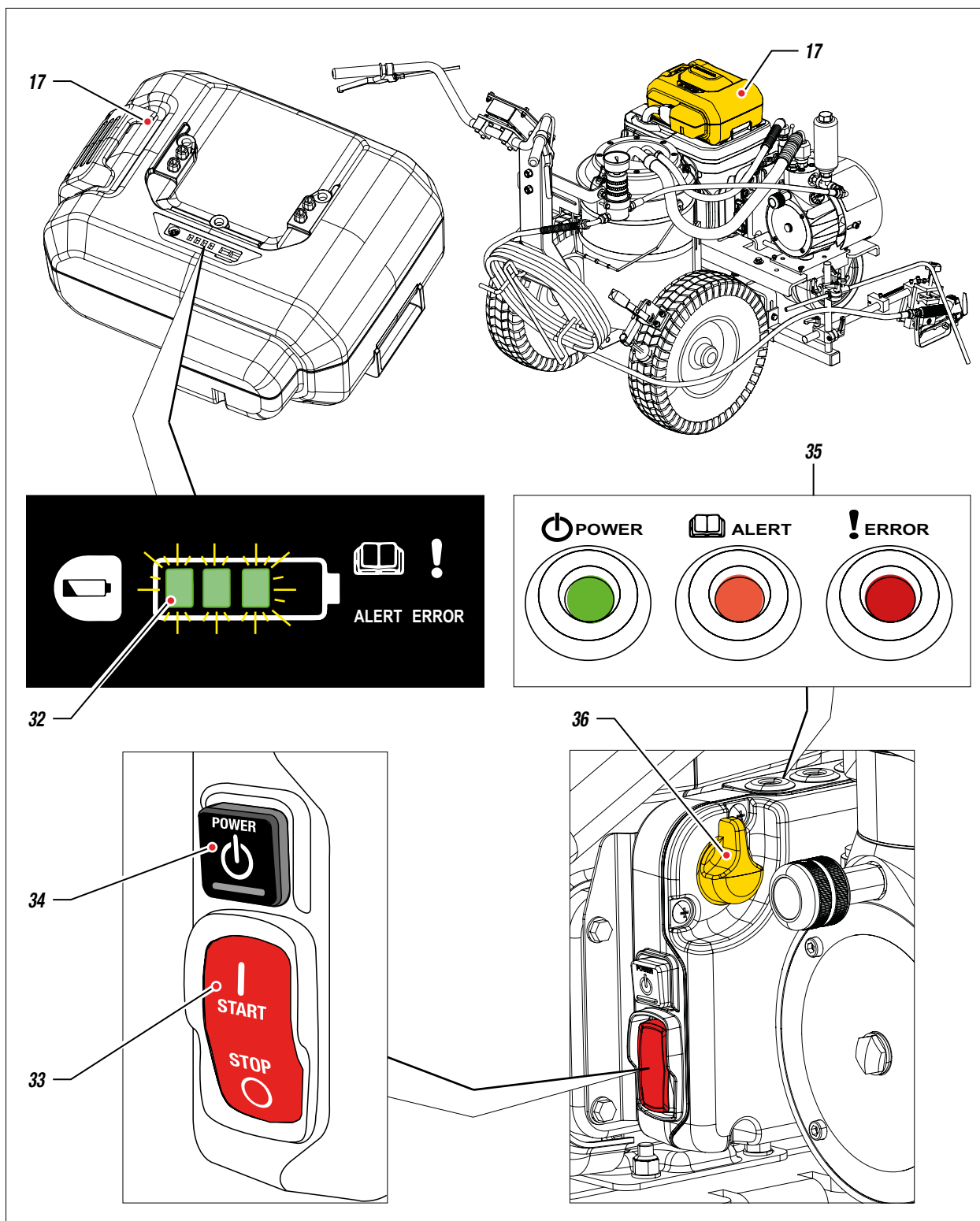


Fig. 5

Pos.	Description
17	Battery
32	LED battery charge level indicator
33	“START I / STOP 0” button for machine power on/off

Pos.	Description
34	“POWER” button for machine status check
35	Machine status indicator lights
36	Potentiometer for increasing/decreasing engine RPM

H SETTING-UP

TUBE CONNECTIONS

Flexible re-circulation tube connection

- Connect the flexible re-circulation tube (1) to the connector (2) ensuring to tighten the fittings (the use of two wrenches is suggested).

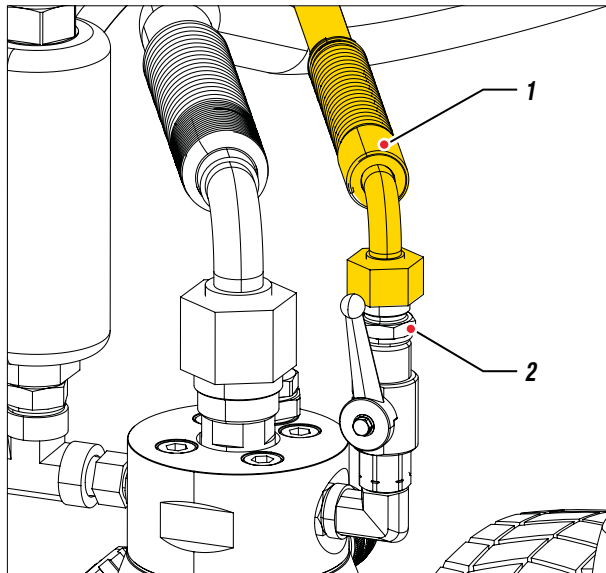


Fig. 1

Pump unit flexible tube connection

- Connect the product suction flexible tube (3) to the connector (4) ensuring to tighten the fittings (the use of two wrenches is suggested).

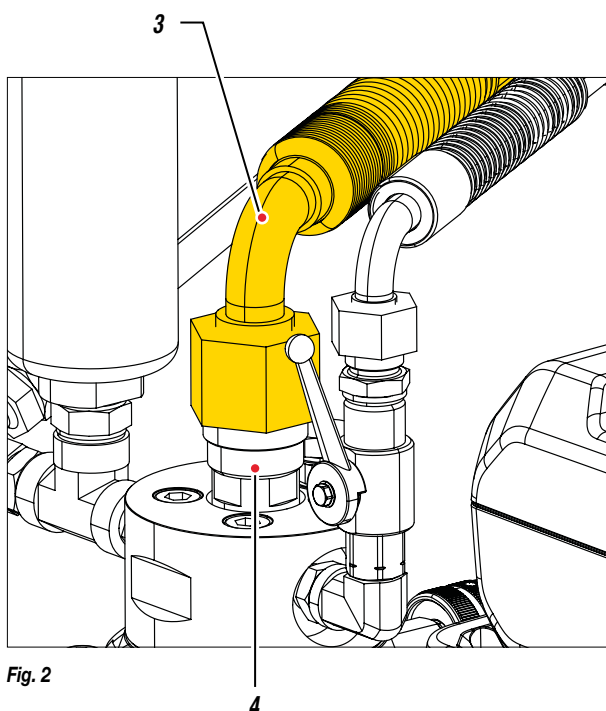


Fig. 2

CONNECTION OF THE GUN

- Connect the high-pressure flexible hose (5) to the connector (6).
 - Connect the hose (7) to the connector (8) and to the spray gun connector (9), taking care to tighten the fittings firmly (the use of two wrenches is suggested).
 - DO NOT use thread sealants on the fittings.
 - It is recommended to use the hose provided in the standard work kit.
- NEVER** use a damaged or repaired flexible hose.

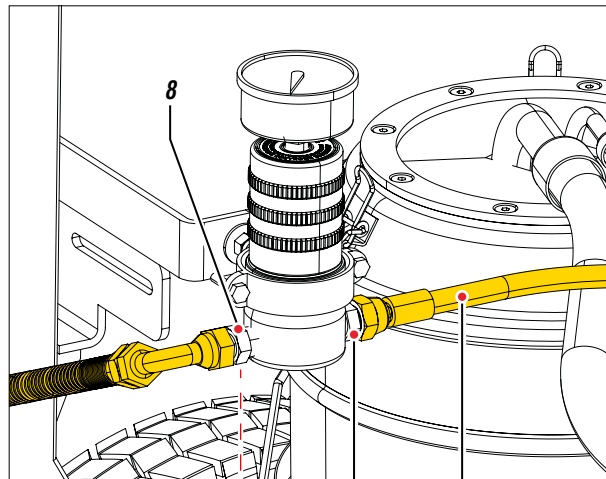


Fig. 3

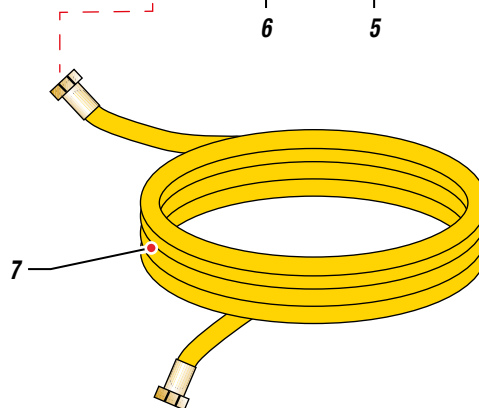


Fig. 4

BATTERY CHARGING

- Connect the battery charger (1) to the power outlet (220 V) using the cable (2).

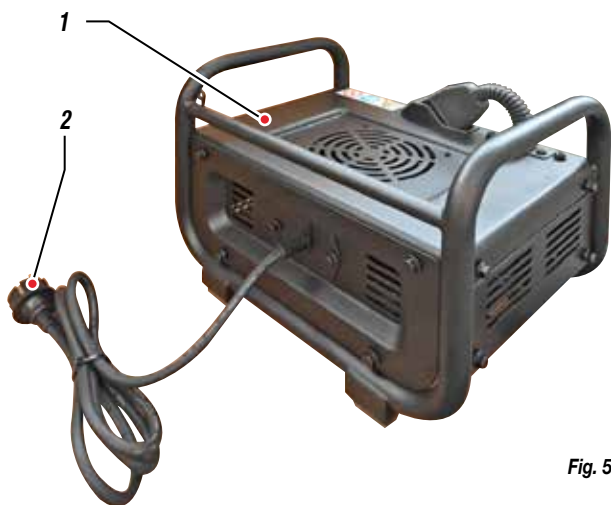


Fig. 5

- Place the battery (3) on the battery charger (1).
- Plug the charging plug (4) of the battery charger (1) into the battery (3).

If the charger is correctly connected to the battery and the power outlet, the solid green “POWER” LED indicator (5) lights up.

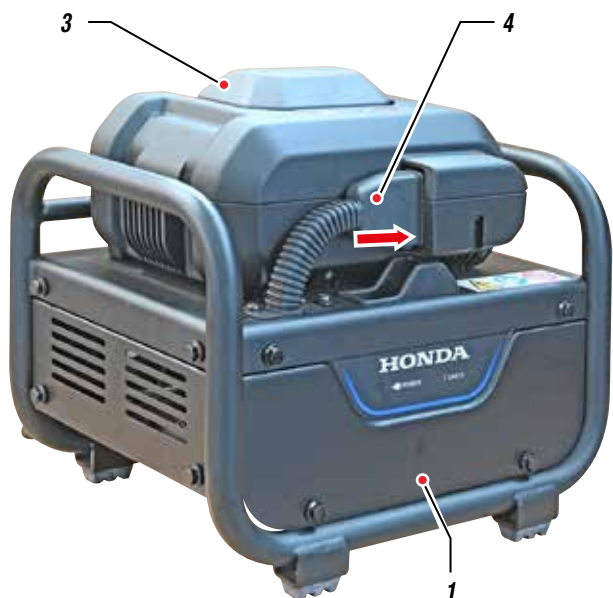


Fig. 6

5

The indicator (6), with its LED lights, showing the battery charge level, turns on:

- If the lights are **SOLID GREEN** : the relative level is already charged;
- If the lights are **FLASHING GREEN LED** : charging of the relative level is in progress.

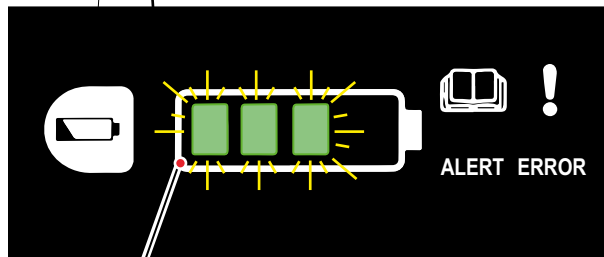
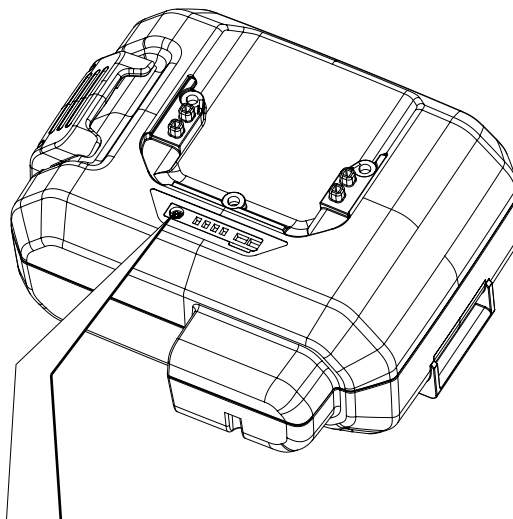


Fig. 7

6

NOTE

When the battery is fully charged, the indicator (6) turns off.



If the “ALERT” led (7) and the “ERROR” led (8) light up, it is necessary to consult the battery charger instruction manual.

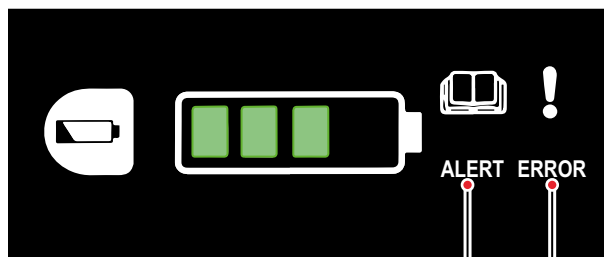


Fig. 8

7

8

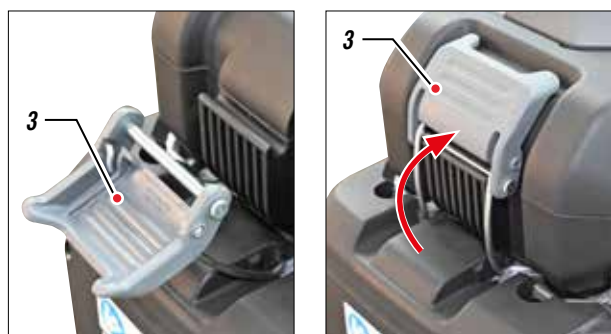
BATTERY POSITIONING

- Place the battery (1) on top of the electric motor (2);



Fig. 9

- Lock the battery with the specific snap-action handle (3);



**HANDLE OPEN
BATTERY UNLOCKED**

**HANDLE CLOSED
BATTERY LOCKED**

- Plug the motor plug (4) into the battery (1).

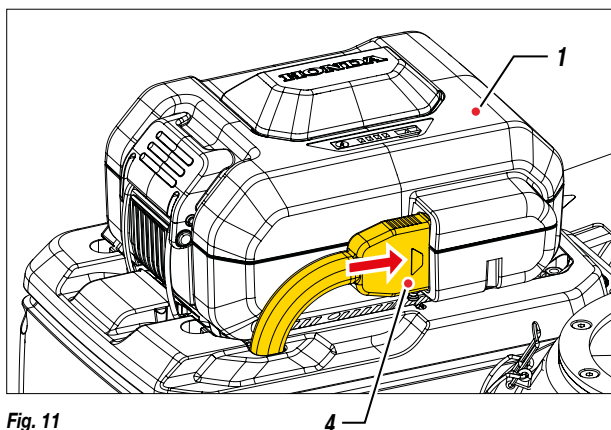


Fig. 11

ELECTRIC MOTOR START-UP

- Press the "POWER" button (5).

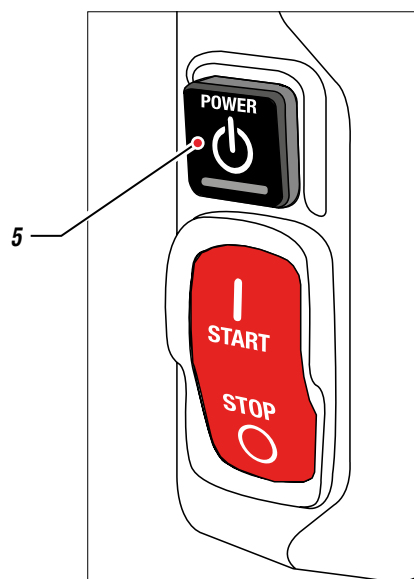


Fig. 12

The following lights turn on simultaneously:

- The "POWER" (6), "ALERT" (7), AND "ERROR" (8) indicators;
- The battery level indicator (9) lights.

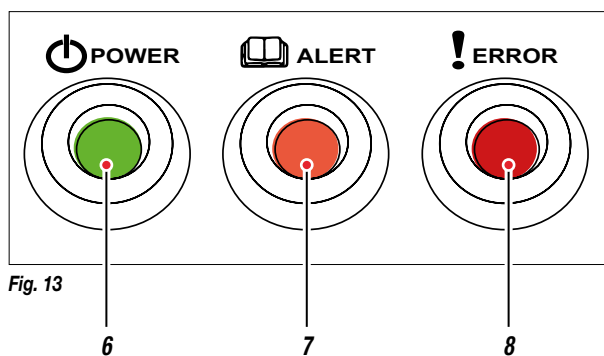


Fig. 13

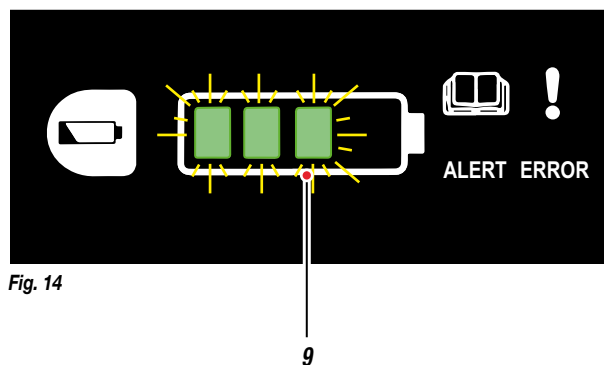


Fig. 14

- When the “ALERT” AND “ERROR” indicators are off, press the red button (10) to START “I”. The motor starts.

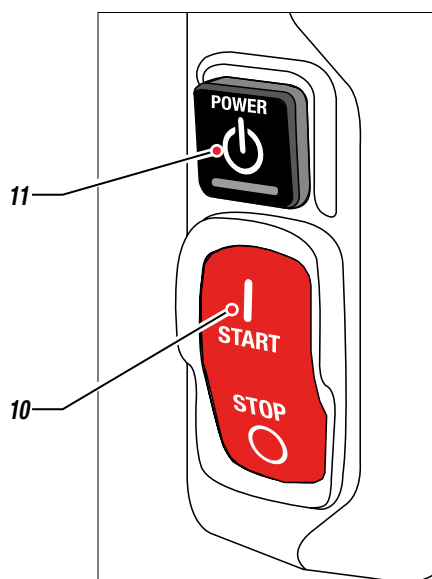


Fig. 15



Do not press the START “I” button (10) without first pressing the “POWER” button (11).

If the “POWER” button (11) is pressed after the “START” button (10), the machine will not start and the “ALERT” indicator (7) will light up.

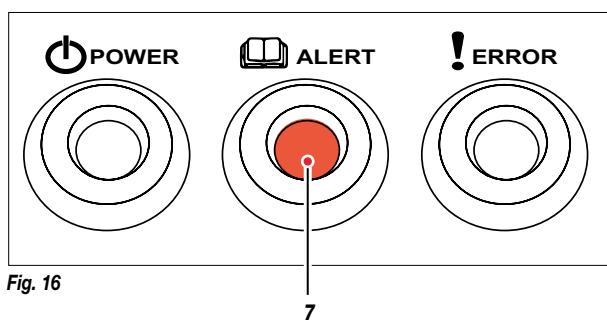


Fig. 16

WASHING OF THE NEW EQUIPMENT

- The equipment has already been adjusted at our factory with light mineral oil left inside the pumping group as protection. Therefore, wash with diluent before sucking the product.
- Fill the product tank (1) with wash fluid.
- Clean the inside of the tank with a brush.

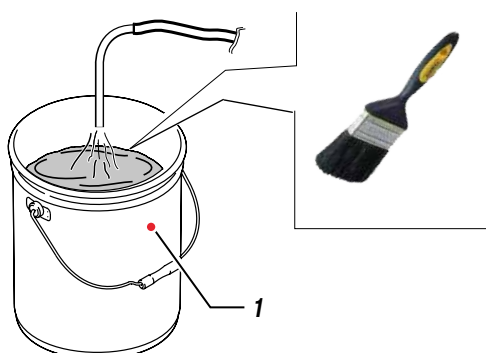


Fig. 17

- Ensure the spray gun (2) is without the nozzle and the finger guard.

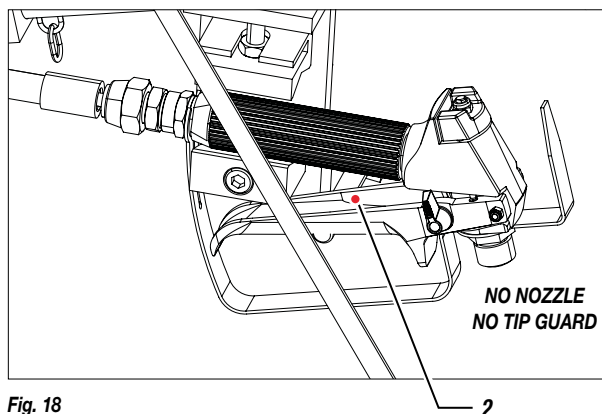


Fig. 18

- If it is necessary to wash the 50 L tank, open the tank product delivery valve (3).

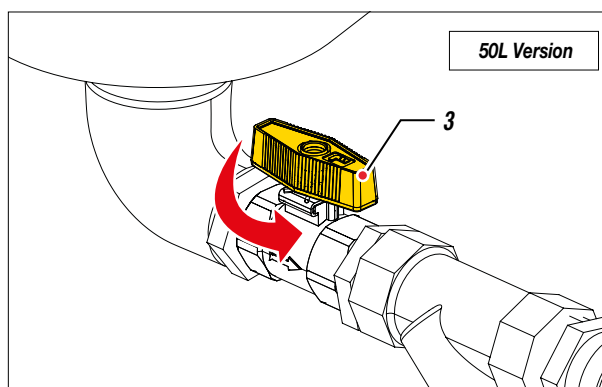


Fig. 19

- Open the recirculation valve (4).

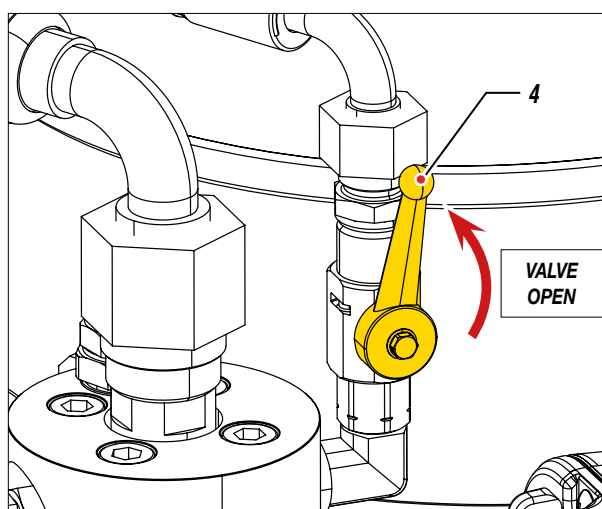


Fig. 20

- Start the electric motor as indicated in the “ELECTRIC MOTOR START-UP” chapter.

- Rotate the pressure setting knob (5) slightly clockwise so that the machine operates at minimum power.

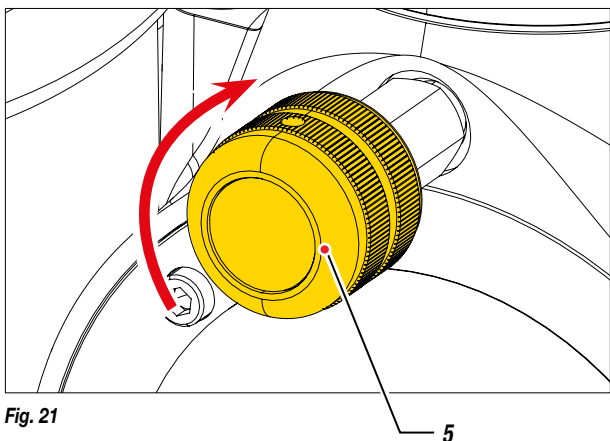


Fig. 21

- Visually check that the wash fluid starts to re-circulate within the tank (1).

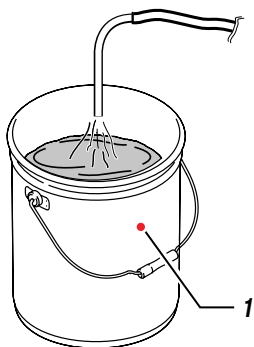


Fig. 22

- Once the wash fluid has circulating enough, close the recirculation valve (4).

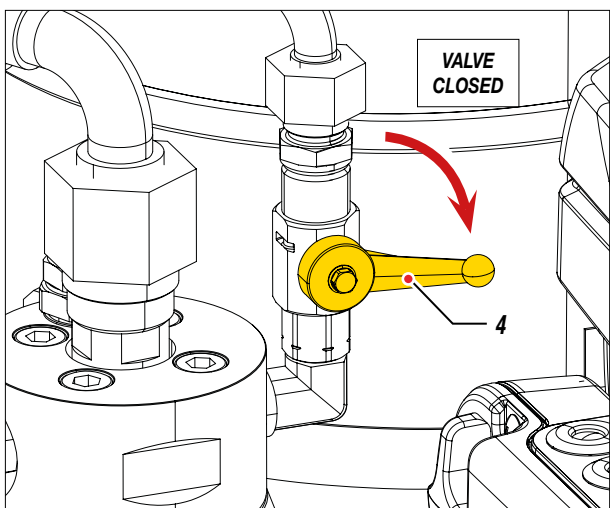


Fig. 23

- Remove the gun (2) from its support and point it into a container (6). Hold the trigger down (to perform the cleaning) until clean solvent comes out, or else until all of the wash fluid has been expelled from the tank.

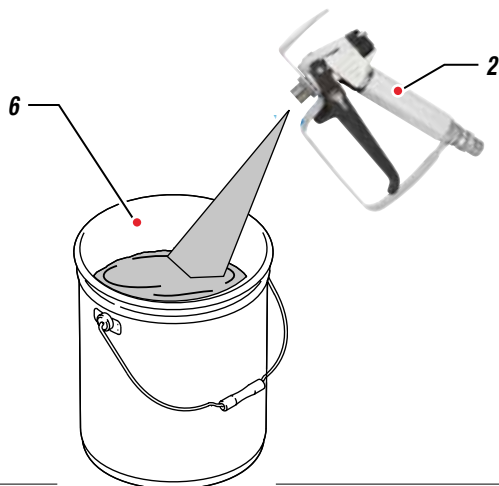


Fig. 24



Repeat the same operations with clean solvent if necessary.

- At the end of cleaning, turn the knob (5) to MIN, point the spray gun (2) toward a collection container (6), and hold the trigger lever down to discharge the residual pressure. At this point, release the trigger.



NEVER spray solvents indoors. In addition, it is recommended to keep away from the pump in order to avoid the contact between the solvent fumes and the motor.

- When the pump idles stop the electric motor.
- At this point the machine is ready. If water-based paints are to be used, after the wash with solvent wash the tank again with soap and water, then rinse with clean water (repeating the previously described procedures).
- Insert the manual gun trigger lock and assemble the nozzle.

PRODUCT PREPARATION



MAKE SURE THE PRODUCT IS SUITABLE TO BE USED WITH A SPRAY GUN.

- Mix and filter the product before using it. For filtration use **CLOSE-MESH** (rif. LA214) **LARIUS METEX** braids.



Make sure the product to be used is compatible with the materials employed for manufacturing the equipment (stainless steel and aluminium). Because of that, please contact the supplier of the product.

Never use products containing halogen hydrocarbons (as *methylene chloride*). If these products come into contact with aluminium parts of the equipment, can provoke dangerous chemical reactions with risk of explosion.

- fill the tank (1) with the paint.

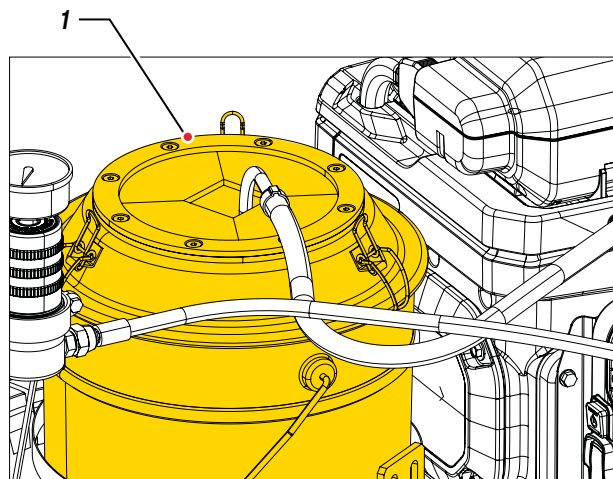


Fig. 25

I REGULATIONS

ADJUSTING THE GUN POSITION

In order to adjust the position of the spray gun (1) use the knobs (2-3).

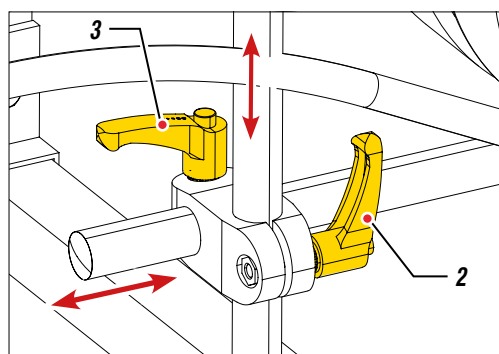
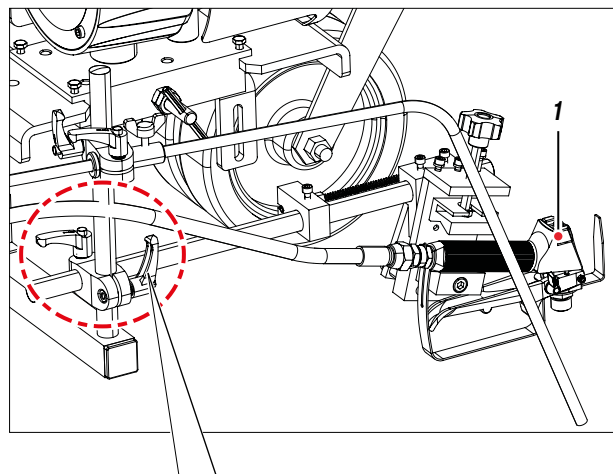


Fig. 1

ADJUSTING THE POINTER POSITION

In order to adjust the position of the pointer (4) use the knobs (5-6).

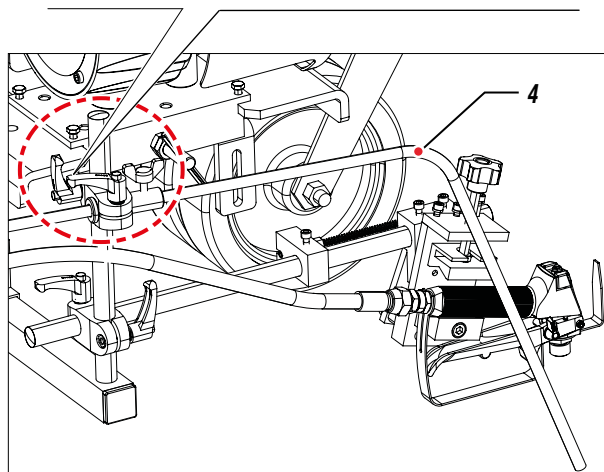
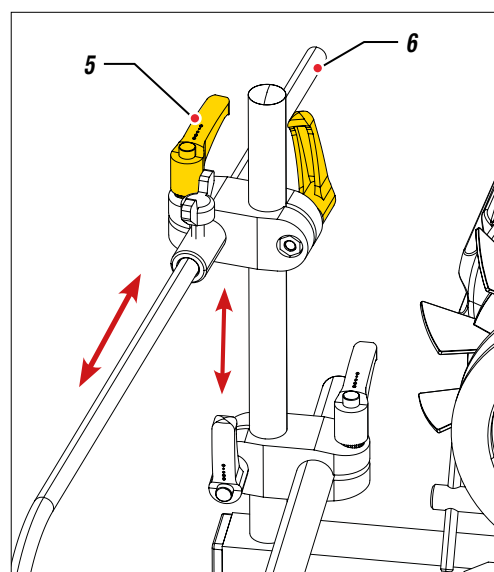


Fig. 2

ADJUSTING THE GUN SUPPORT ARM

To adjust the position of the spray gun holder arm (7), it is necessary to:

- Use a 17 mm wrench to loosen nuts (8) and (9) (see also following page).
- Use knobs (10) and (11) (see also following page).

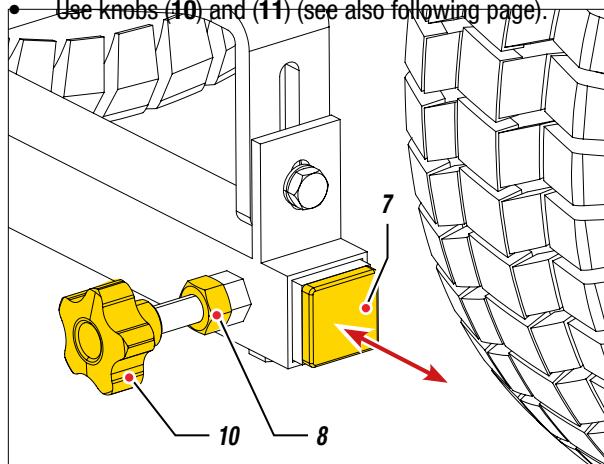


Fig. 3

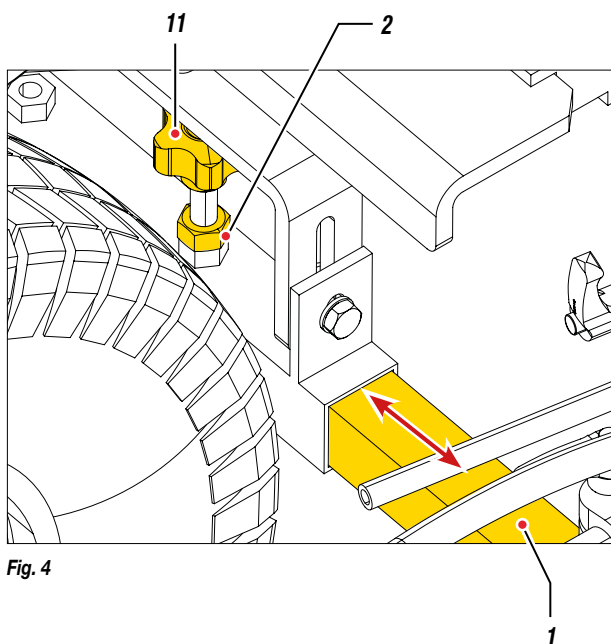


Fig. 4

ADJUSTING BELT TENSION

To adjust the belt tension you need to follow the following procedure:

- Remove the two upper screws (12) and (13) using the appropriate allen key.

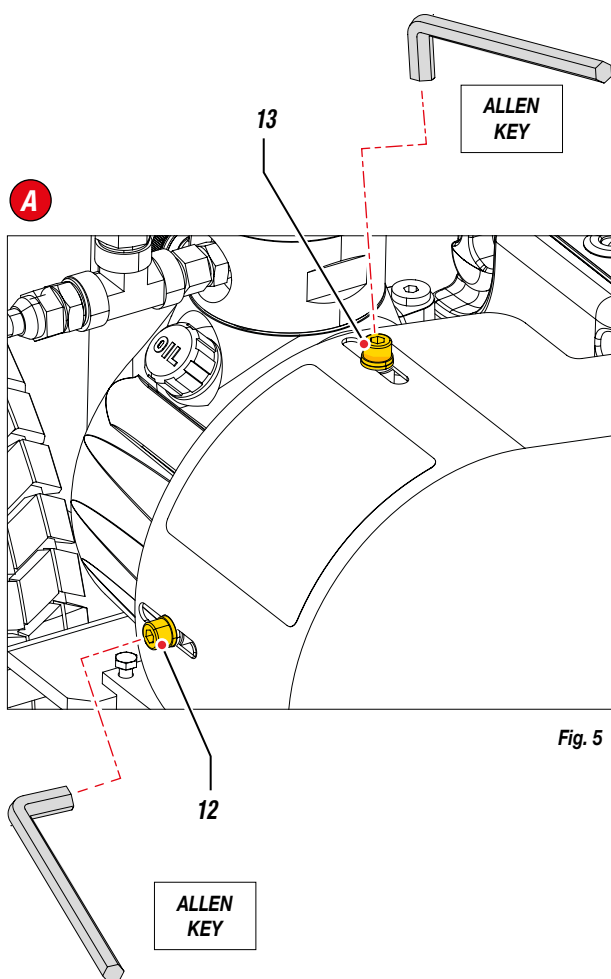


Fig. 5

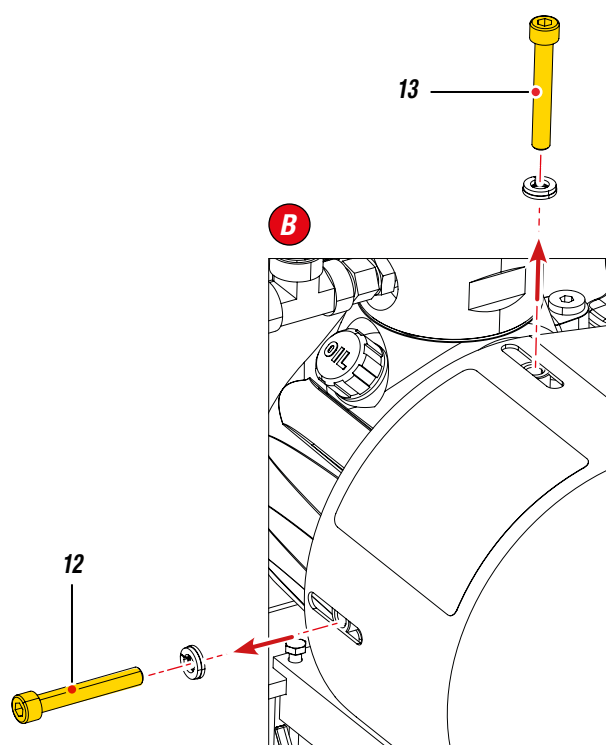


Fig. 6

- Remove the lower screw (1) using a 17 mm wrench.

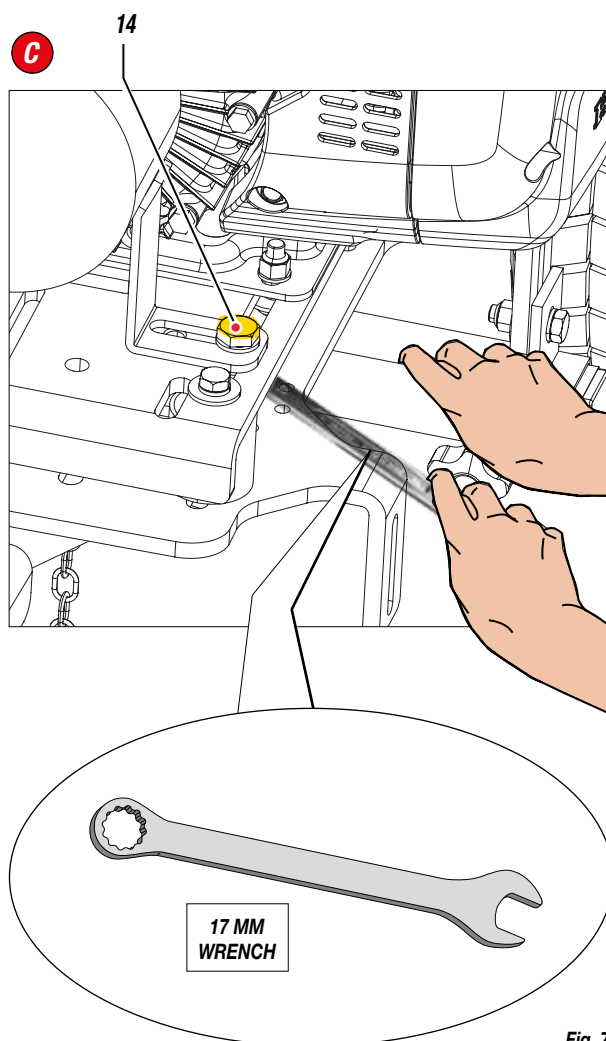


Fig. 7

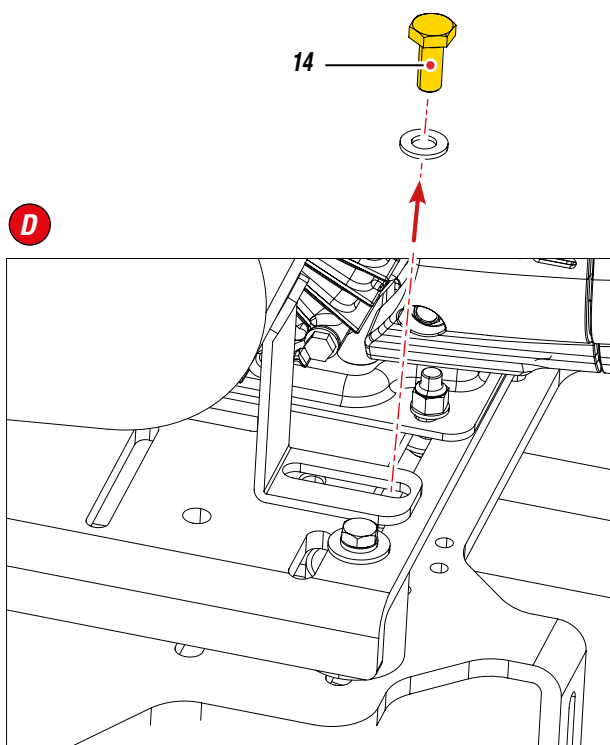


Fig. 8

- Remove the guard (15).

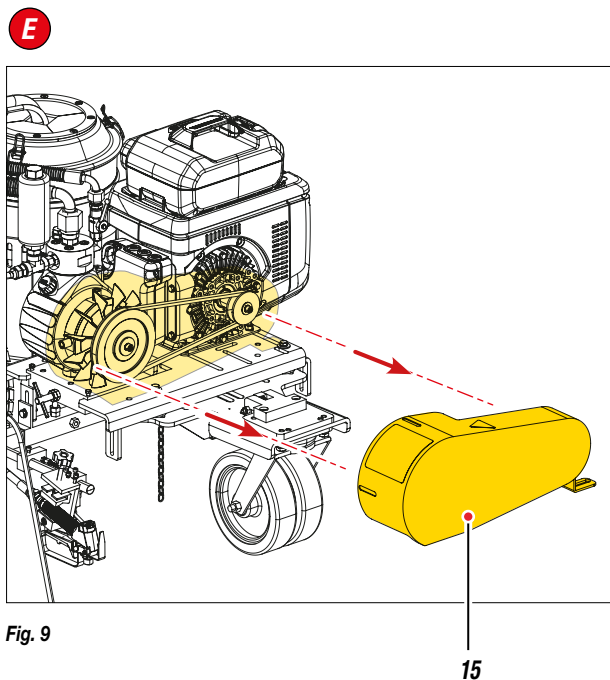


Fig. 9

- Loosen the 4 screws (16).
- Loosen the locknut (17).
- Rotate the screw (18) to perform the adjustment of the belt (19).

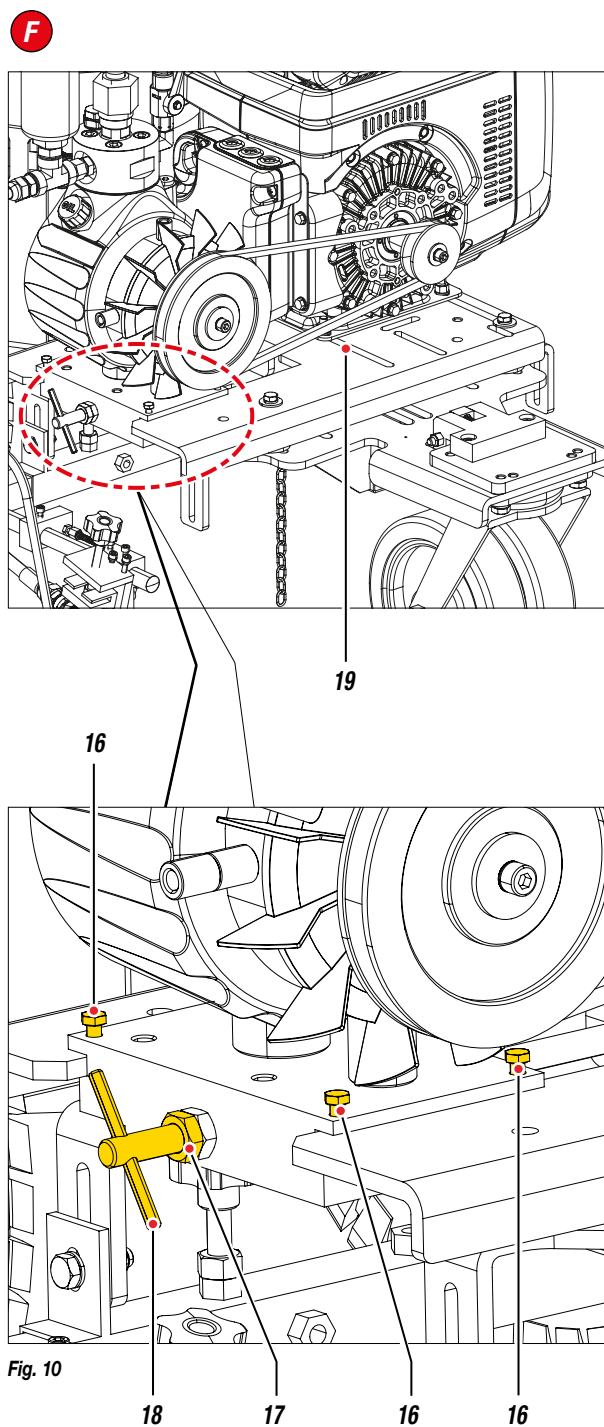


Fig. 10

- After concluding the adjustment, perform in reverse order the procedures **F**, **E**, **D**, **C**, **B**, **A**.

J OPERATION

SETUP PROCEDURE

- Use the tooling after performing all the **SETTING UP** operations above described.
- Open the product delivery tap (1) (50L version only).

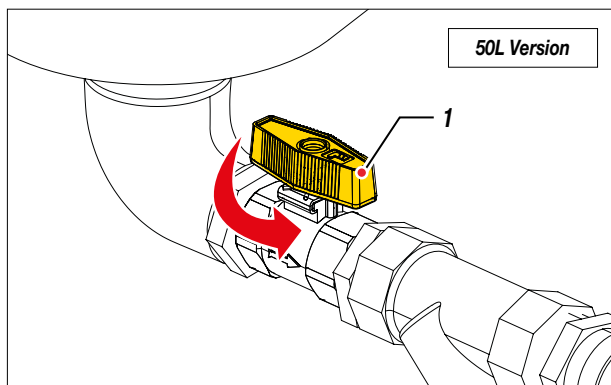


Fig. 1

- Switch on the electric motor as indicated in the chapter **"ELECTRIC MOTOR START-UP"**.
- Use the adjustment knob (2) with potentiometer function to adjust the motor rotation speed.

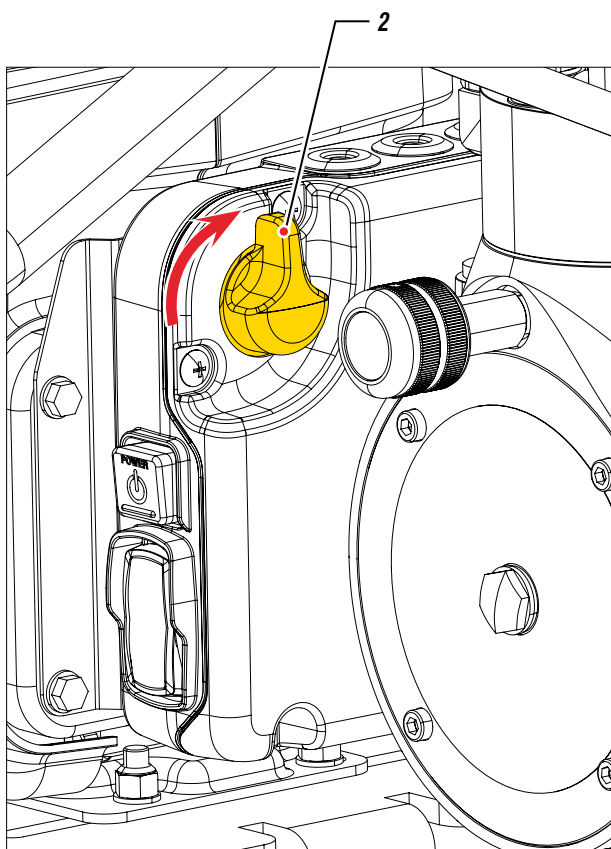


Fig. 2

- Ensure that the recirculation valve (3) is open.

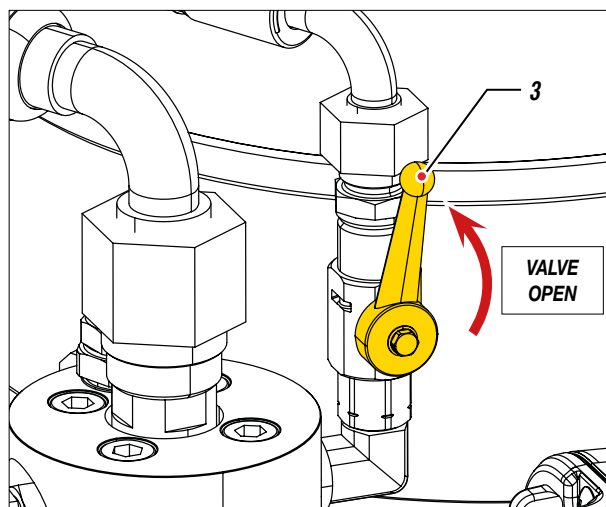


Fig. 3

- Rotate the pressure setting knob (4) to start the pump priming.

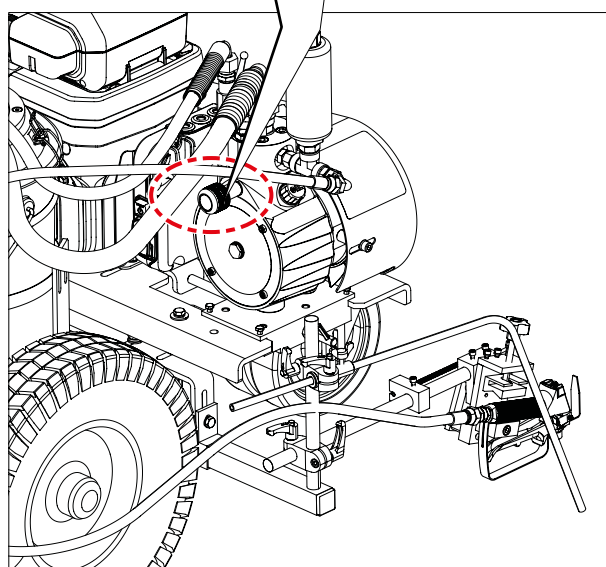
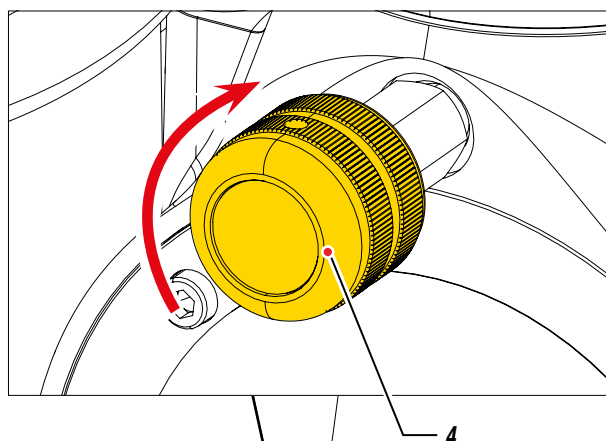


Fig. 4

- When the painting product begins to flow out of the recirculation tube (5), rotate the pressure setting knob (4) to "0".

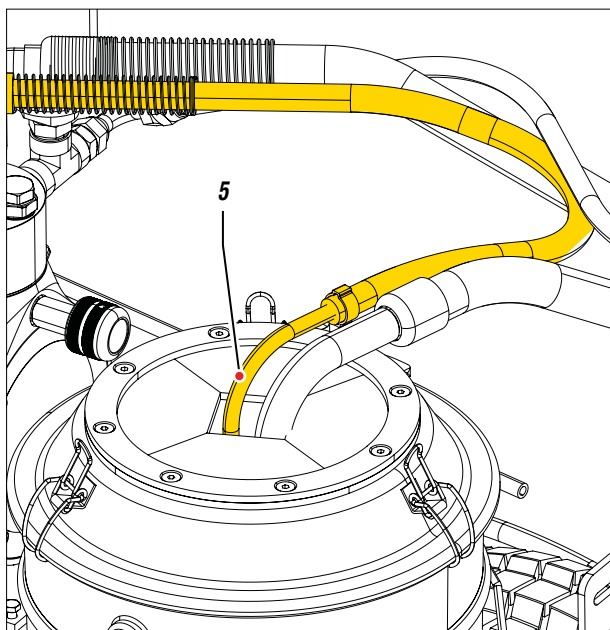


Fig. 4

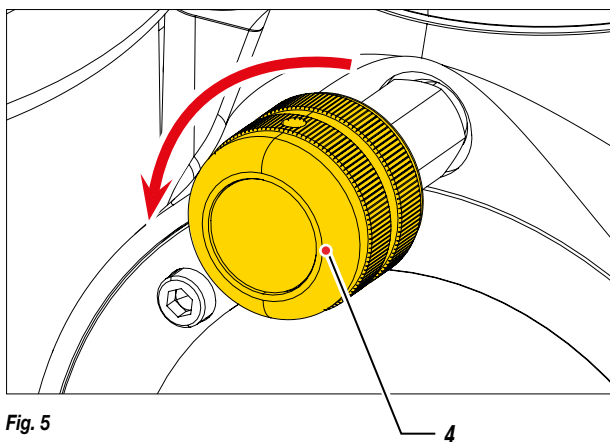


Fig. 5

- Close the recirculation valve (3).

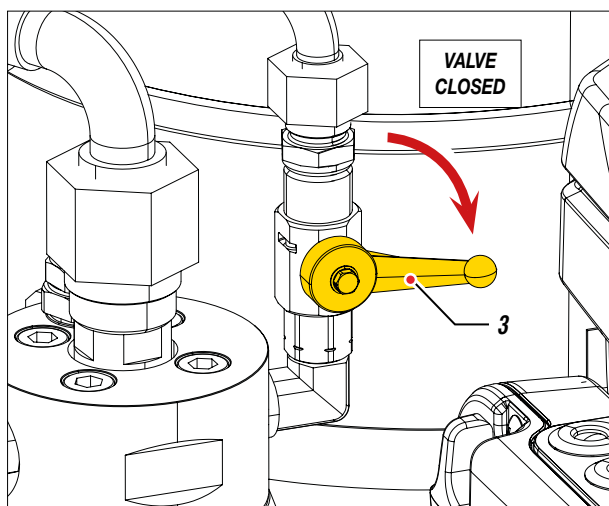


Fig. 6

- Rotate the pressure setting knob (4) clockwise to the desired position (the working pressure is displayed on the pressure gauge. Maximum working pressure limit: 220 bar).

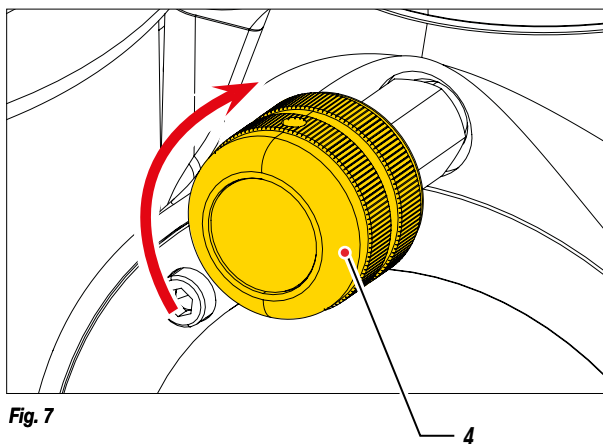


Fig. 7

ADJUSTING PUMP UNIT SPEED

- Gently move the motor acceleration lever (2) to increase or decrease the pump speed.

During the painting operation it is normally recommended to maintain the position of the accelerator lever (2) at about 3/4 of its maximum run.

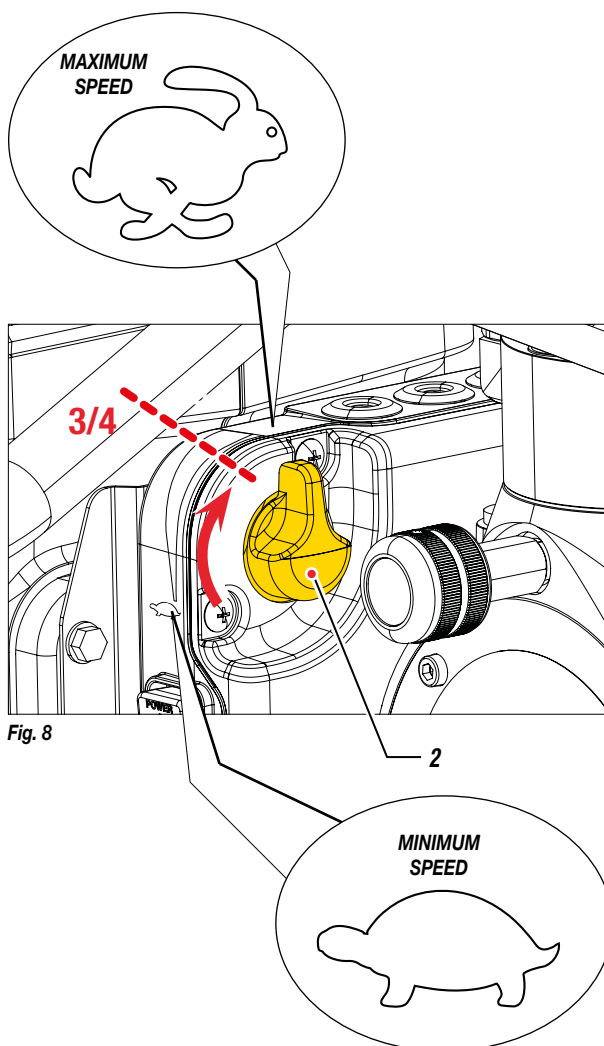
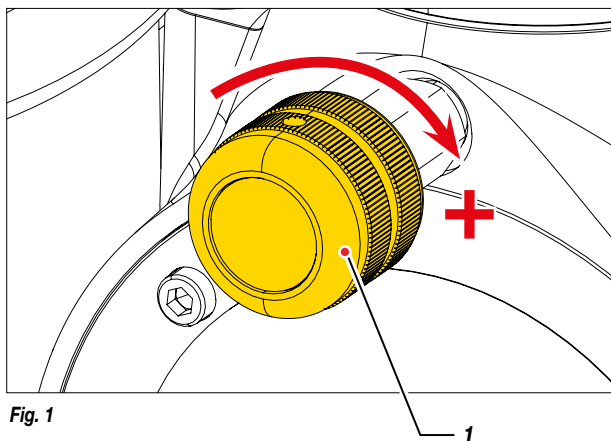


Fig. 8

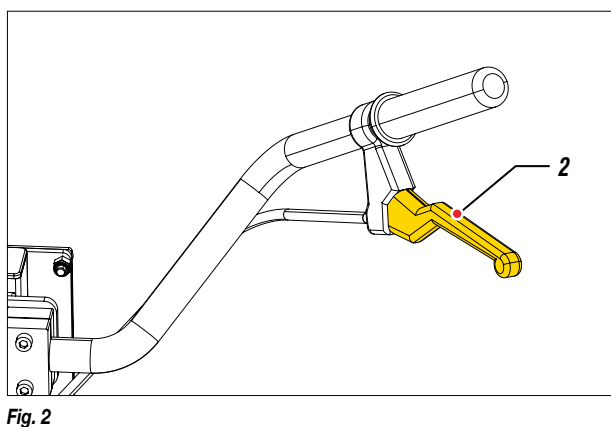
K PAINTING OPERATIONS

After having performed all of the operations in the “**OPERATION**” chapter, work may be started using the following controls:

- Rotate the pressure setting knob (1) clockwise. This allows the line marking gun to deliver paint by switching the relative lever.



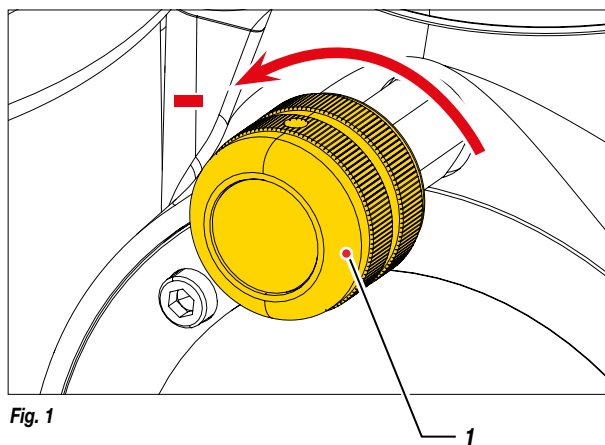
- An irregular and marked spray on the sides indicates a low working pressure. On the contrary, a too high pressure causes a high fog (“overspray”) and waste of product.
- Pull the lever on the right (2) to activate the spray gun and begin working, advancing the machine in a continuous manner.



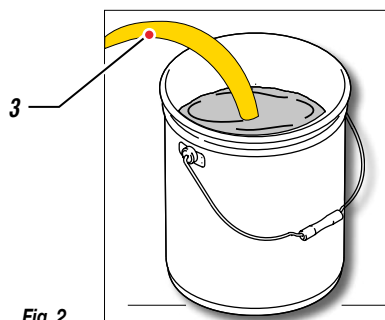
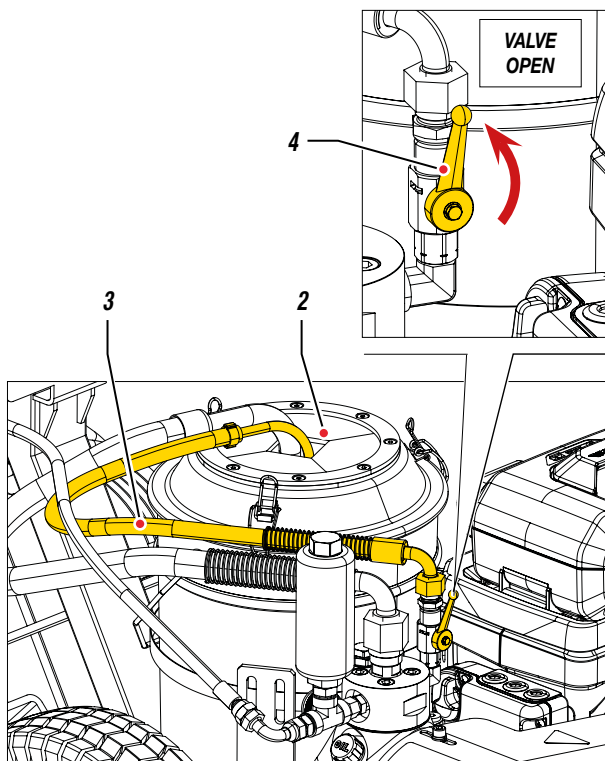
NEVER point the spray gun at yourselves or at other people. The contact with the casting can use serious injuries. In case of injuries caused by the gun casting, seek immediate medical advice specifying the type of the product injected.

L CLEANING AT THE END OF WORK

- Reduce the pressure to the minimum (rotate the pressure setting knob (1) counter-clockwise).



- Release the residual pressure by holding down the trigger of the gun and pointing it into a container.
- Eliminate the paint remaining within the tank (2) by placing the re-circulation tube (3) into a container.
- Open the recirculation valve (4).



- Slightly rotate the pressure setting knob (1) clockwise, running the machine at minimum pressure (pump started) until the tank is completely empty, then stop the pump by turning the setting knob (1) to the minimum.
- Fill the tank (2) with cleaning fluid.
- Clean the tank walls with a brush.
- Slightly rotate the pressure setting knob (1) clockwise, running the machine at minimum pressure (pump started).
- Wait for the cleaning fluid to flow out of the recirculation tube (3) placed in the (clean) container.
- Rotate the pressure setting knob (1) to the minimum (pump stopped).
- Reposition the recirculation tube into the tank..
- Discharge the residual pressure by keeping the gun pressed.
- Remove the tip guard with the nozzle from the gun and wash it separately.
- Close the recirculation valve.
- Slightly rotate the pressure setting knob (1) clockwise, running the machine at minimum pressure (pump started).
- Point the manual gun (5) into a container (6) and discharge the residual paint, then wait for the cleaning fluid to pass through until the entire spraying circuit is clean.

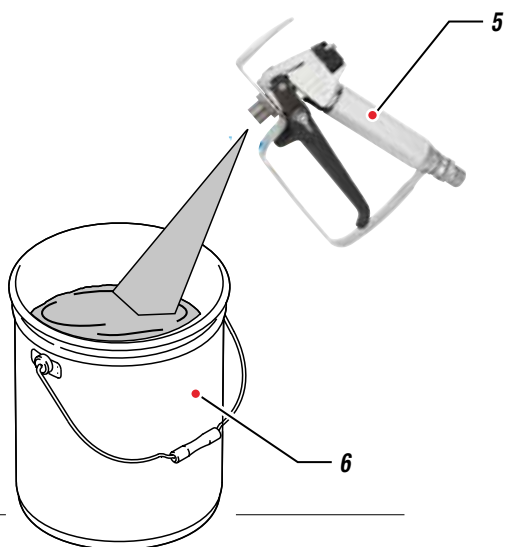


Fig. 3

- Remove all cleaning fluid from the tank and switch off the equipment.
- Rotate the pressure setting knob (1) to the minimum (pump stopped).
- Switch off the electric motor.

- If a long period of inactivity is expected, it is recommended to suction and leave light mineral oil inside the pumping element and the hose.



Follow the washing procedure before using again the equipment.

M

GENERAL MAINTENANCE



Discharge the pressure in the pump unit (open the discharge valve) before carrying out any maintenance operation.

DAILY

- Clean the filters;
- Clean the nozzles;
- Clean all the varnish circuit with a specific product;
- Check the battery level.

PERIODICALLY

- Clean the mobile parts from the varnish deposits (spray guns, etc.);
- Check the gun cables tightening, the wheel block;
- Check that the tubes and all the fittings are correctly locked.

N

ROUTINE MAINTENANCE

TOP UP HYDRAULIC OIL

Check the hydraulic oil level at each start-up through the sight glass (1) located on the front part of the hydraulic unit; if necessary, top it up using:

AGIP DICREA 150 type hidraulic oil

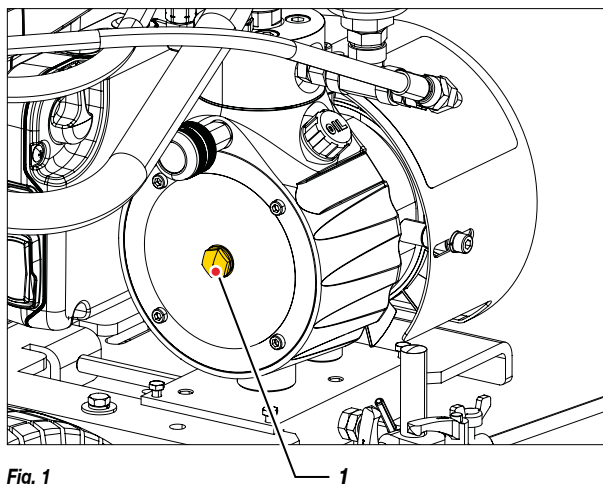


Fig. 1

RELEASE THE SUCTION VALVE

If the pump malfunctions, release the suction valve fitted on the head of the pump in the following way:

- Remove the suction hose fitting or the suction tank and release the valve by inserting a rigid rod (2) with a diameter of no more than 15 mm.



Add a few drops of oil to make operation easier.

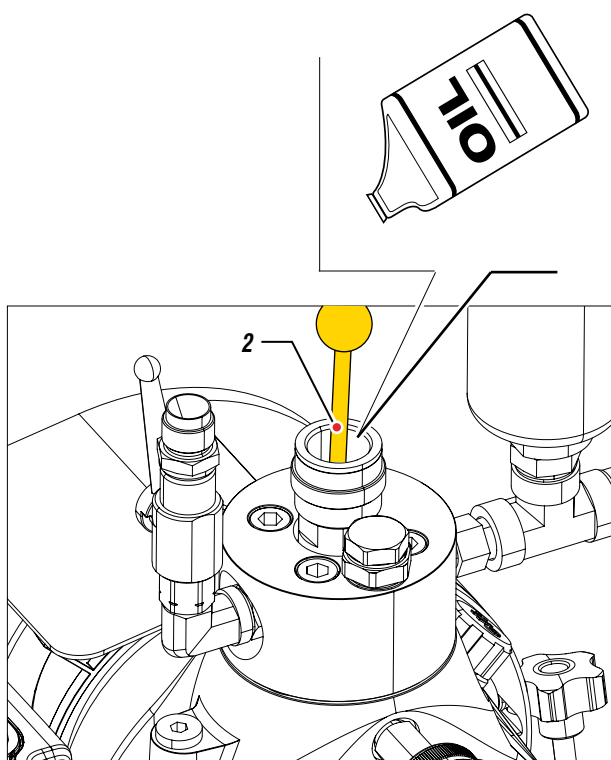


Fig. 2

CLEANING THE COMPRESSION VALVE

Should the equipment fail to suck the material, remove the compression valve (3), clean it with specific solvents according to the type of paint to be used.

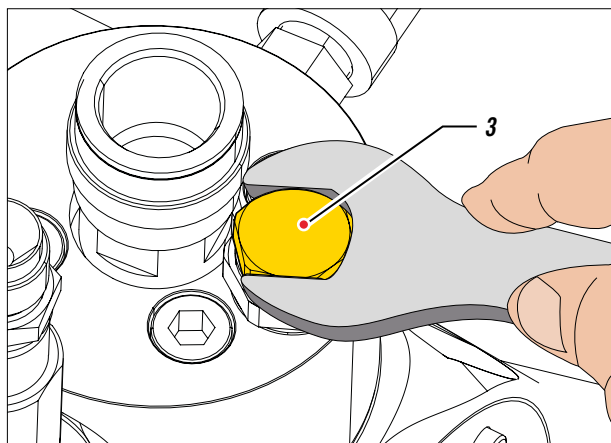


Fig. 3

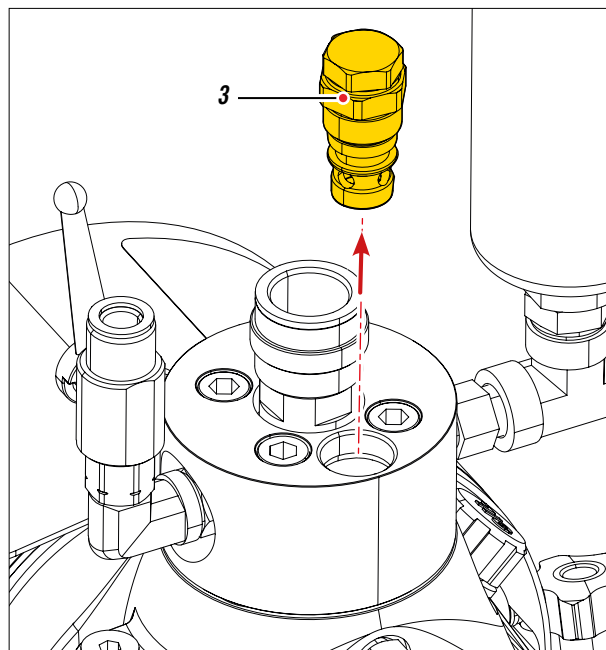


Fig. 4

Once it has been cleaned, shake the valve (3) by hand to check that the ball inside moves freely in its seating. If necessary, clean again.

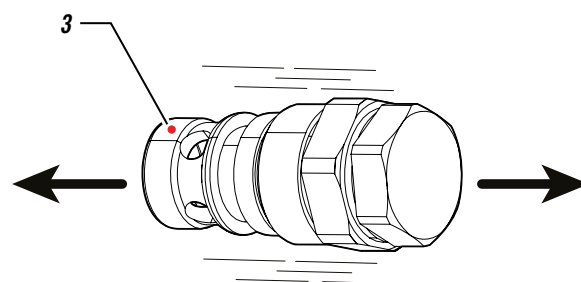


Fig. 5

Check that the ball seals in its seating as follows:

- Turn the valve (3) upside down;

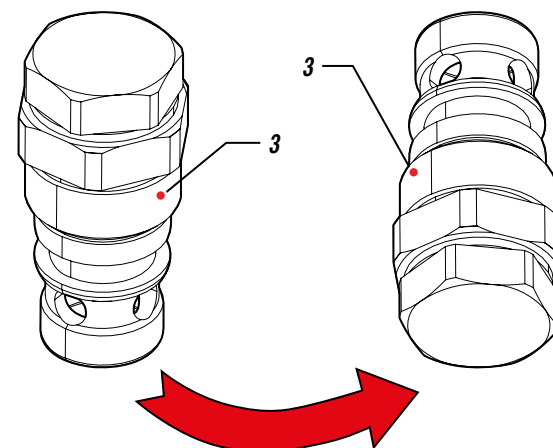


Fig. 6

- Put solvent into the groove in the ball's seating;

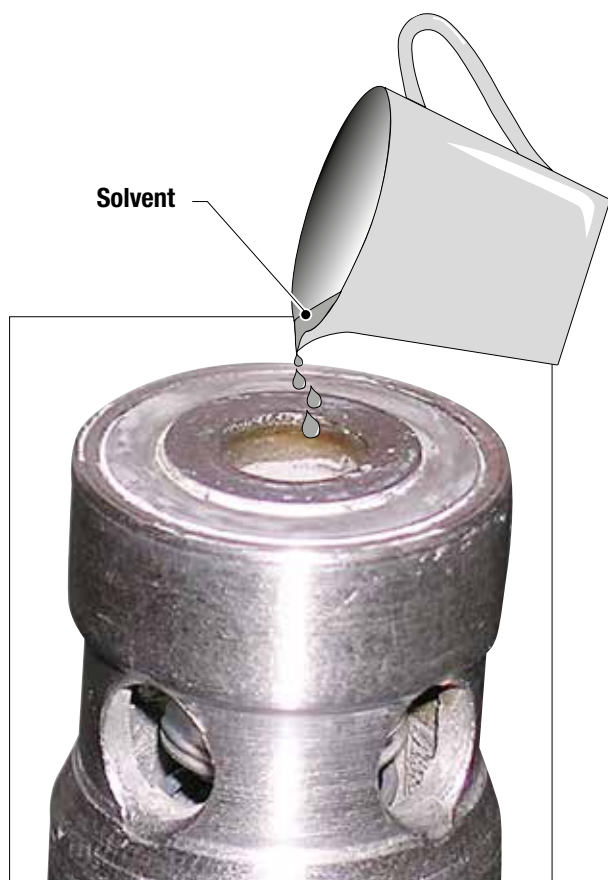


Fig. 7

- If the quantity of solvent a few minutes later is still identical to that added previously, the ball's seal in its seating is ensured;



Fig. 8

- If the solvent flows out the holes at the bottom within a few minutes, replace this valve with a new one;

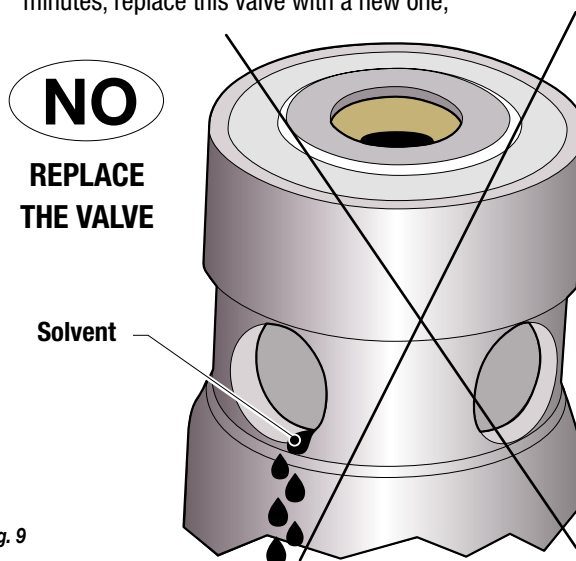


Fig. 9

- Once the valve (3) is properly clean, fit it again.

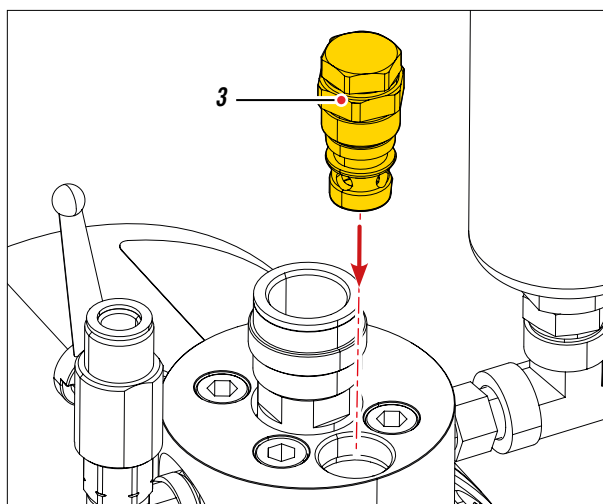


Fig. 10

REPLACING HYDRAULIC OIL

After operating for 100 hours, replace the oil in the pump;

- Remove the oil filler cap (4).

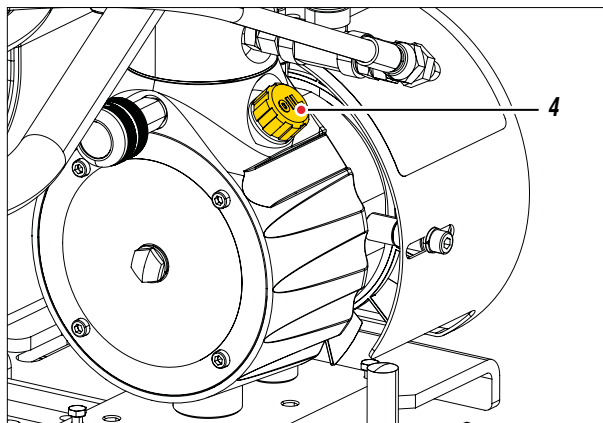


Fig. 11

- Drain the waste oil through the drain plug (5) located on the bottom of the pump unit.

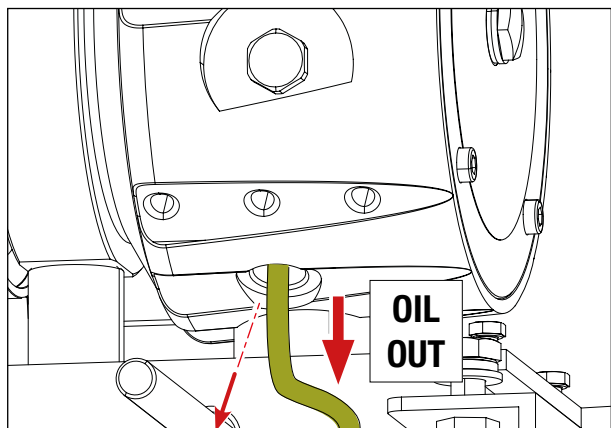


Fig. 12

- Clean and, if necessary, replace the worn seals of the drain plug.
- Unscrew the filter cap (6).

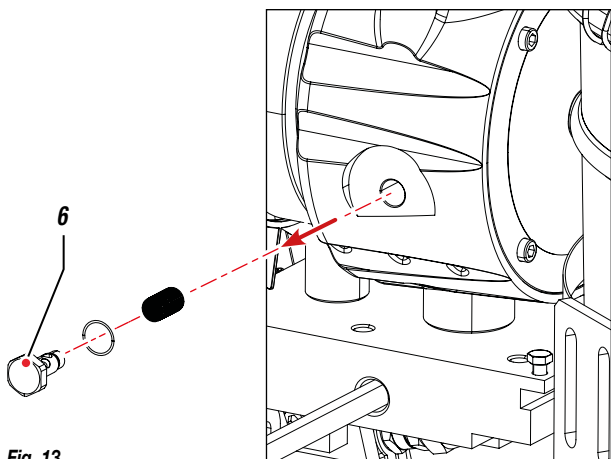
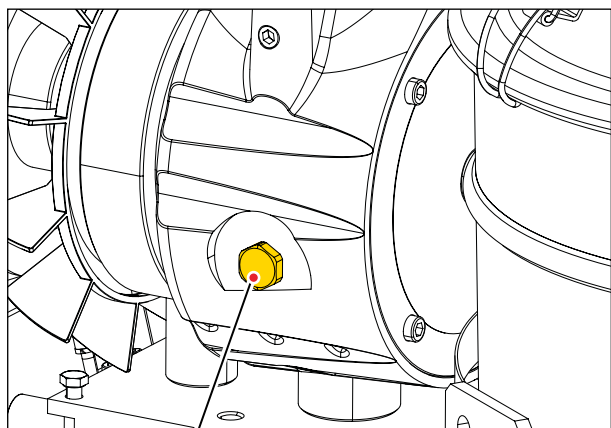


Fig. 13

- Clean the filter mesh (7).
- Clean and, if necessary, replace the worn seal (7a) of the filter.

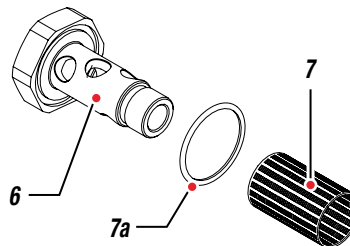


Fig. 14

- Reassemble the mesh (7) on the filter with the seal (7a) and screw the cap (6) back into its seat, tightening it fully.

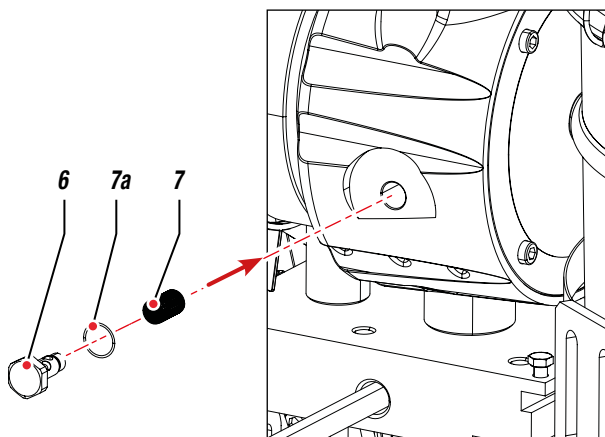


Fig. 15

- Reassemble the drain plug (5).
- Fill the pump with the recommended oil until reaching the maximum level.
- Check the oil level through the level sight glass (8).
- Reassemble the oil filler cap (4).
- Subsequently, replace the oil every year.

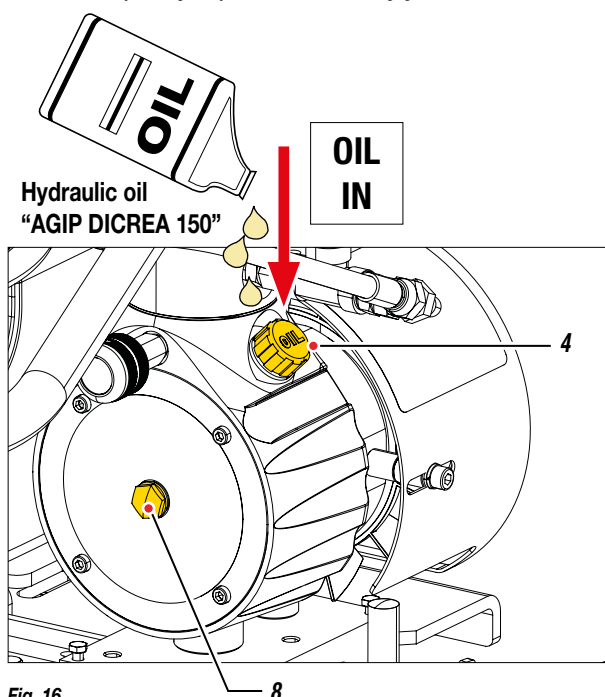


Fig. 16

0 CORRECT PROCEDURE OF DECOMPRESSION

- Press STOP "0" (1) on the red switch button. The motor turns off.

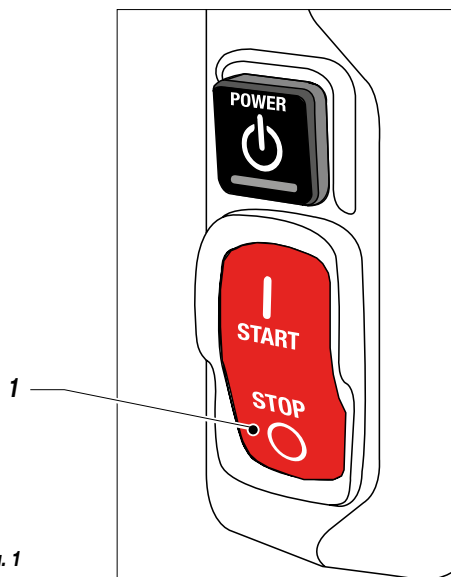


Fig. 1

- Reduce the pressure to the minimum (rotate the pressure setting knob (2) counter-clockwise).

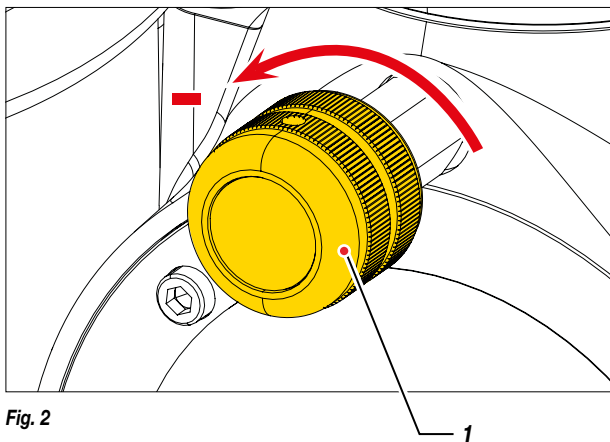


Fig. 2

- Disengage the safety lock (3).

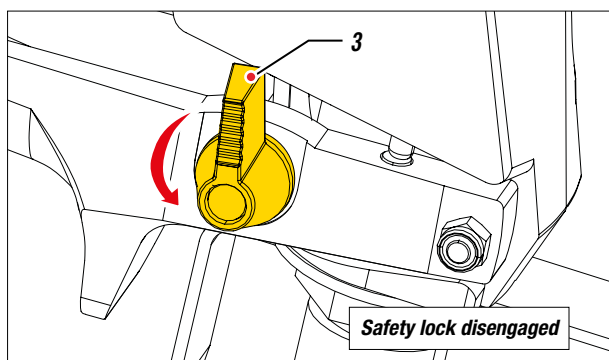


Fig. 3

- Point the gun (4) at the product collection container (5) and pull the trigger to discharge the pressure. Once finished, re-engage the safety lock.

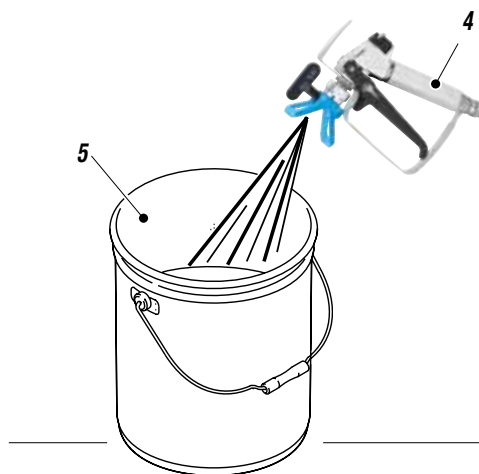


Fig. 4

- Slowly open the recirculation valve (6) to discharge the residual pressure.

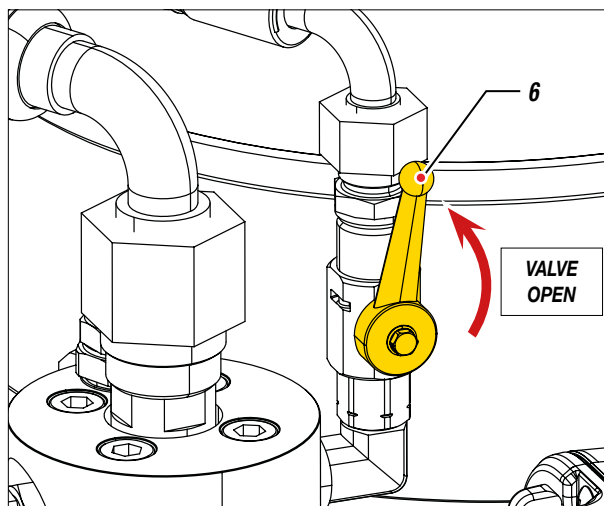


Fig. 5

WARNING:

If the equipment is still under pressure after performing the operations above described because of the nozzle or the flexible hose clogged, proceed as follows:

- Loosen very slowly the gun nozzle.
- Disengage the safety lock.
- Point the gun at the container of the product and press the trigger to release pressure.
- Loosen very slowly the fitting of connection from the flexible hose to the gun.
- Clean or replace the flexible hose and the nozzle.



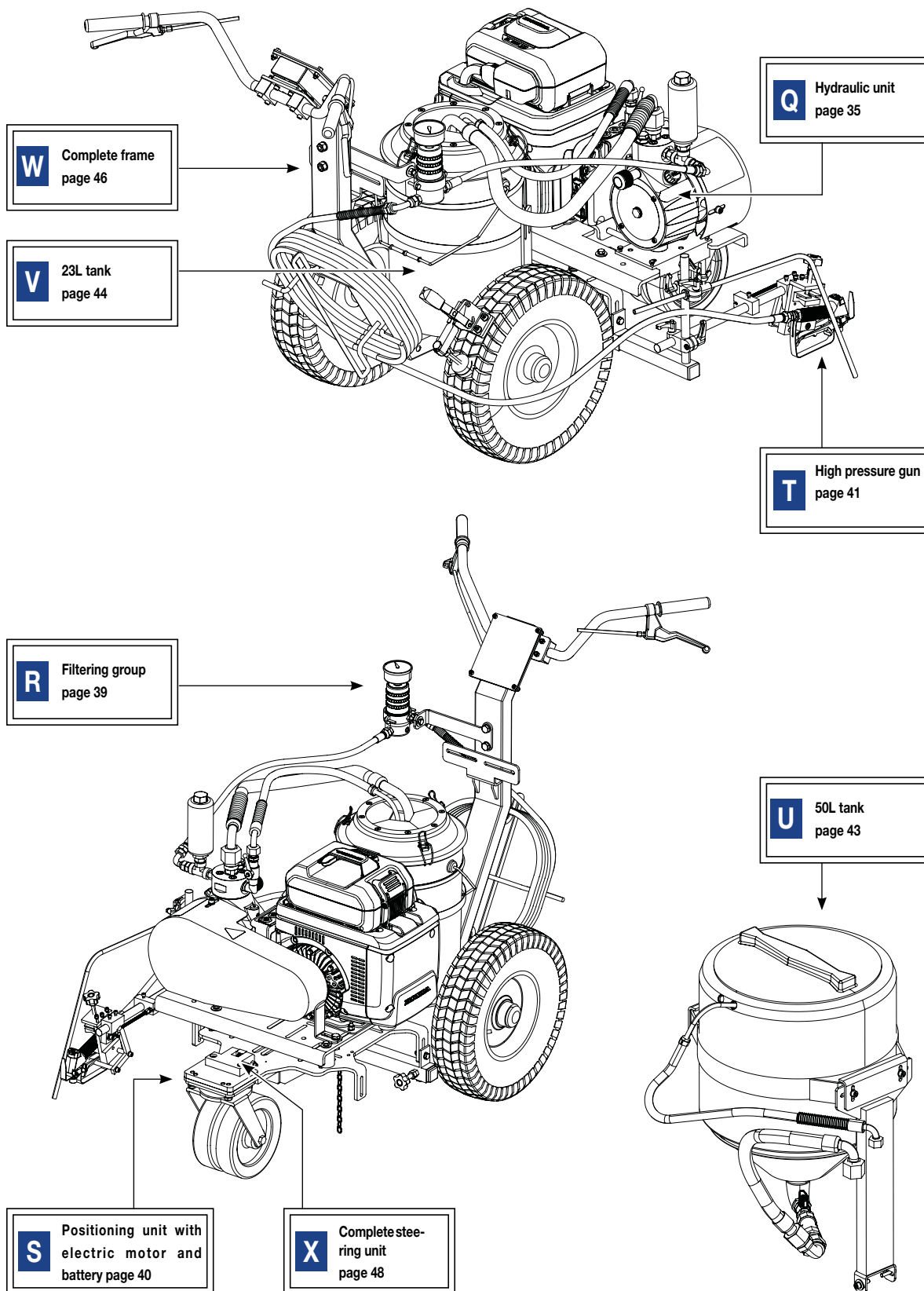
P TROUBLESHOOTING

Problem	Cause	Solution
The equipment does not start	Low battery	Recharge the battery by connecting it to the battery charger.
	Setting valve faulty pressure;	Verify and replace it, if necessary;
	The product is solidified inside the pump;	Open the drain valve to release pressure in the circuit and stop the machine. Disassemble the pumping group and the pressure transmitter and clean;
The equipment does not suck the product	The line of material coming out of the pump is already under pressure;	Open the drain valve to release pressure in the circuit;
	The product is solidified inside the pump;	Open the drain valve to release pressure in the circuit and stop the machine. Disassemble the pumping group and clean;
	The equipment sucks air;	Check the suction pipe;
The equipment sucks but does not reach the pressure desired	Lack of product;	Add the product;
	The equipment sucks air;	Check the suction pipe;
	The drain valve is open;	Close the drain valve;
	Suction or delivery valve dirty;	Disassemble the colour group;
When pressing the trigger, the pressure lowers considerably	Nozzle too big or worn;	Replace it with a smaller one;
	The product is too dense;	Dilute the product, if possible;
	The filter of the gun-butt is too fine;	Replace it with a larger-mesh filter;
	The filter of the gun-butt is dirty;	Clean the filter;
The pressure is adequate but the product is not atomized.	The nozzle is partially clogged;	Clean or replace it;
	The product is too dense;	Dilute the product, if possible;
	The filter of the gun-butt is too fine;	Replace it with a larger-mesh filter;
Material leaking from the rear part of the gun body	Worn seals mounted on the rod;	Replace the seals;
The atomization is imperfect	The nozzle is worn;	Replace it.



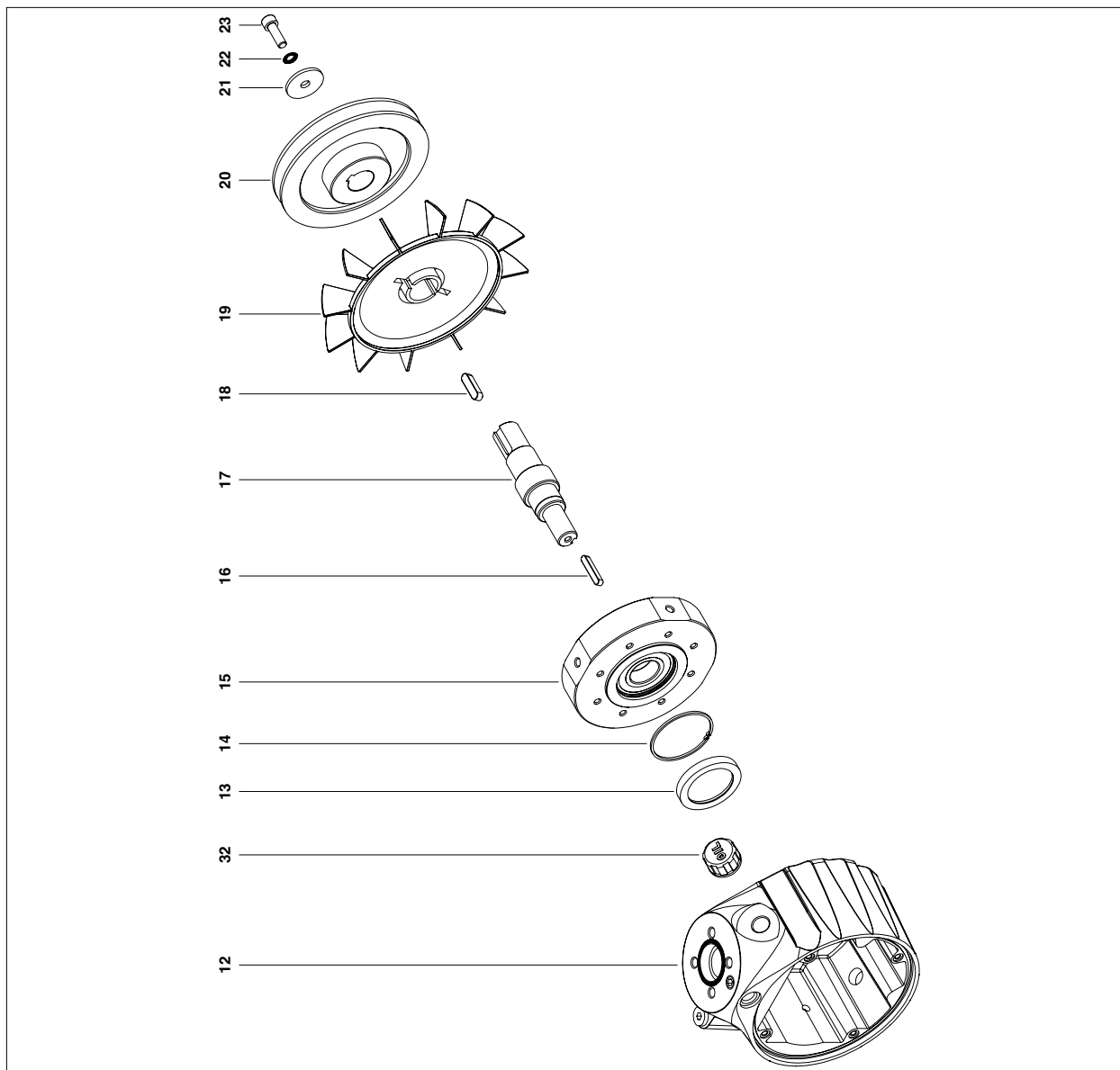
Always release the air compressed supply and unload the plant pressure before performing any check or replacement of pump parts (see "correct procedure of decompression").

SPARE PARTS



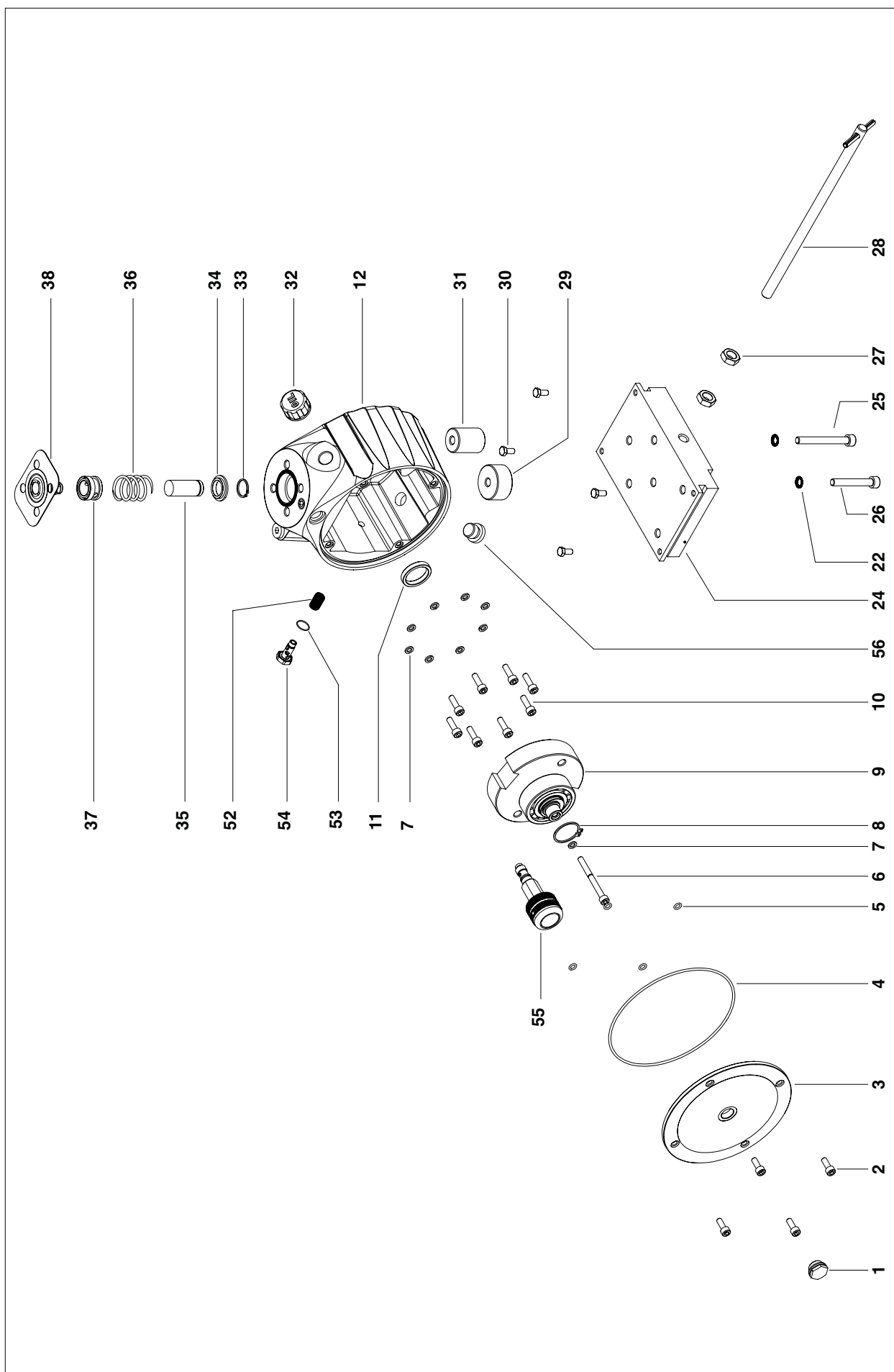
Q HYDRAULIC UNIT REF. LA18986

WARNING: Always indicate code and quantity for each part required.



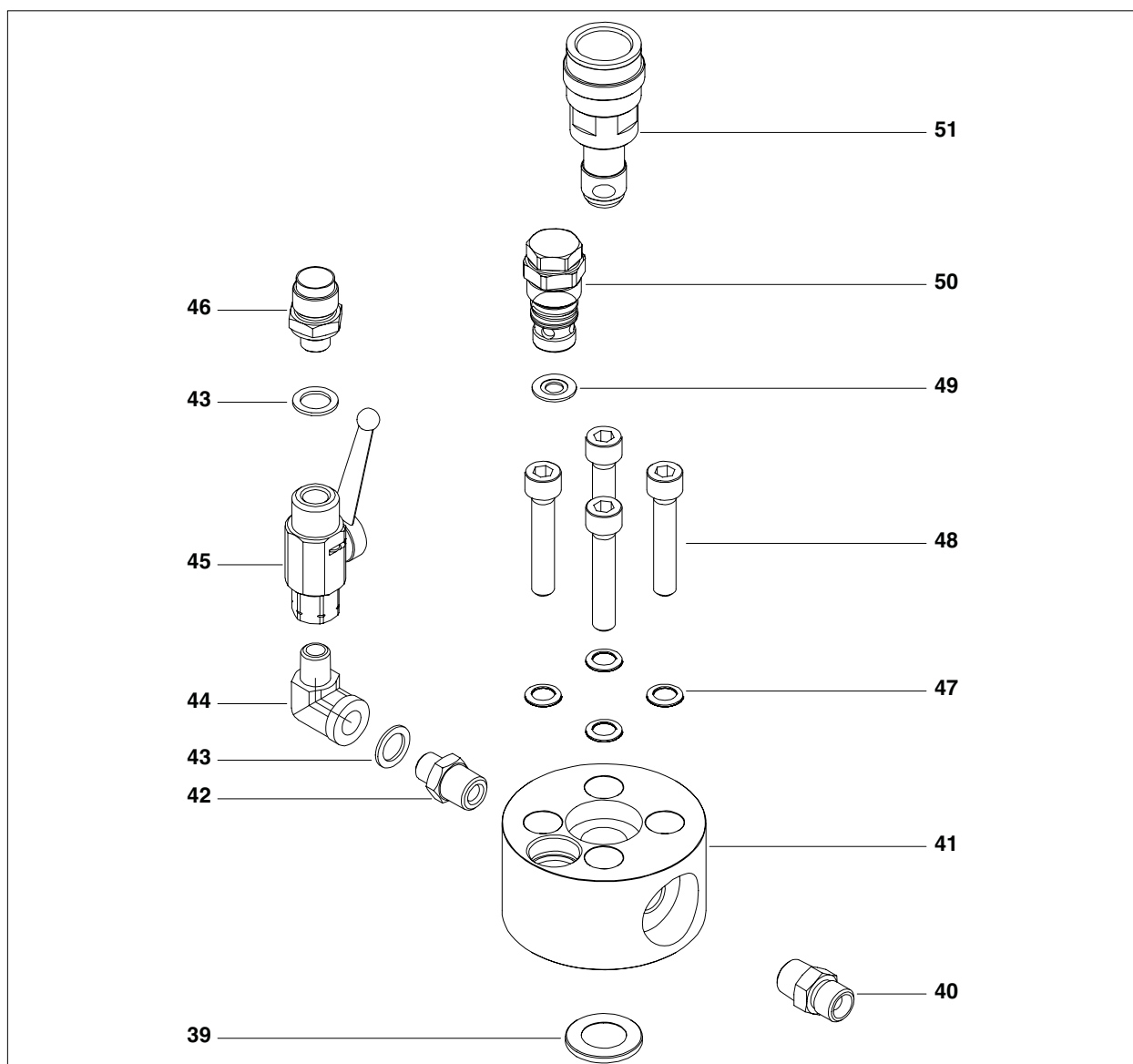
Pos.	Code	Description	Q.ty
12	ref. Kit LA21648	Hydraulic unit	1
13	LA18909/1R ref. Kit LA21648	Seal ring	1
14	ref. Kit LA40527 ref. Kit LA18341/5	Retaining ring	1
15	ref. Kit LA40527	Hydraulic flange unit	1
16	ref. Kit LA40526 ref. Kit LA40529	Tab	1
17	LA18315R	Mirò transmission shaft	1
18	ref. Kit LA40528 ref. Kit LA40529	Tab	1
19	LA18342R	Fan	1

Pos.	Code	Description	Q.ty
20	LA18320R ref. Kit LA40529	Hydraulic pulley	1
21	ref. Kit LA95153/10 ref. Kit LA40529 ref. Kit LA40530	Washer	1
22	ref. Kit LA34009/10 ref. Kit LA40529 ref. Kit LA40530	Washer	3
23	ref. Kit LA96031/5 ref. Kit LA40529 ref. Kit LA40530	TCE screw	1
32	LA32006R	Breather plug with valve	1



Pos.	Code	Description	Q.ty
1	ref. Kit LA32007/5	3/8 oil sight glass plug	1
2	ref. Kit LA54004/5	TCE screw	4
3	LA40525	Front cover unit	1
4	ref. Kit LA21542/5	O-Ring	1
5	ref. Kit LA301013/20	O-Ring	4
6	ref. Kit LA21556/5	TCE screw	1
7	ref. Kit LA21537/10	Copper washer	9
8	ref. Kit LA40526 ref. Kit LA21541/5	Retaining ring	1
9	ref. Kit LA40526	Eccentric flywheel shaft	1
10	ref. Kit LA91062/10	TCE screw	8
11	LA18321R	Spacer ring	1
12	ref. Kit LA21648	Hydraulic unit	1
22	ref. Kit LA34009/10 ref. Kit LA40529 ref. Kit LA40530	Washer	3
24	LA18312R	Piastra di regolazione	1
25	ref. Kit LA18198/5	TCE screw	1
26	ref. Kit LA37406/5	TCE screw	1
27	ref. Kit LA81010/10	Nut	2
28	LA40532	Tie rod	1

Pos.	Code	Description	Q.ty
29	LA18323R	Flange spacer	1
30	ref. Kit LA95062/10	TE screw	4
31	LA18322R	Hydraulic unit spacer	1
32	LA32006R	Breather plug with valve	1
33	ref. Kit LA40429 ref. Kit LA40470 ref. Kit LA40531	Retaining ring	1
34	ref. Kit LA40470 ref. Kit LA40531	Piston spring retainer	1
35	ref. Kit LA40469 ref. Kit LA40531	Hydraulic piston	1
36	ref. Kit LA40470 ref. Kit LA40531	Piston return spring	1
37	ref. Kit LA40130	Diaphragm spacer	1
38	ref. Kit LA40130	Diaphragm	1
52	ref. Kit LA40472	Filter strainer	1
53	ref. Kit LA40472	O-Ring	1
54	LA21532R	Oil filter support	1
55	LA32150	Pressure relief valve	1
56	LA32108R	Cap	1



Pos.	Code	Description	Q.ty
39	vedi Kit LA40130	Diaphragm shim	1
40	LA95248R	Fitting	1
41	LA21635R	Colour unit	1
42	LA33011R	Nipple	1
43	vedi Kit LA33012/5	Copper washer	2
44	LA18614R	90° elbow joint	1
45	LA33013R	Ball valve	1

Pos.	Code	Description	Q.ty
46	LA33015R	Nipple	1
47	vedi Kit LA33005/6	Washer	4
48	vedi Kit LA33004/5	TCE screw	4
49	vedi Kit LA40131	Ball seat gasket	1
50	vedi Kit LA40131	Check valve unit	1
51	LA21590R	Intake valve unit	1

Oil sight glass plug kit - Code LA32007/5		
Pos.	Description	Q.ty
1	Oil sight glass plug	5

TCE screw kit - Code LA54004/5		
Pos.	Description	Q.ty
2	TCE screw	5

O-ring kit - Code LA21542/5		
Pos.	Description	Q.ty
4	O-ring	5

O-ring kit - Code LA301013/20		
Pos.	Description	Q.ty
5	O-ring	20

TCE screw kit - Code LA21556/5		
Pos.	Description	Q.ty
6	TCE screw	5

Copper washer kit - Code LA21537/10		
Pos.	Description	Q.ty
7	Copper washer	10

Retaining ring kit - Code LA21541/5		
Pos.	Description	Q.ty
8	Retaining ring	5

Eccentric flywheel kit - Code LA40526		
Pos.	Description	Q.ty
8	Retaining ring	1
9	Eccentric flywheel	1
16	Tab	1

TCE screw kit - Code LA91062/10		
Pos.	Description	Q.ty
10	TCE screw	10

Hydraulic unit kit - Code LA21648		
Pos.	Description	Q.ty
12	Hydraulic unit kit	1
13	Seal ring	1

Retaining ring kit - Code LA18341/5		
Pos.	Description	Q.ty
14	Retaining ring	5

Hydraulic flange unit kit - Code LA40527		
Pos.	Description	Q.ty
14	Hydraulic ring	1
15	Hydraulic flange unit	1

Tab kit - Code LA40528		
Pos.	Description	Q.ty
16	Tab	1
18	Tab	1

Hydraulic pulley kit - Code LA40529		
Pos.	Description	Q.ty
18	Tab	1
20	Hydraulic pulley	1
21	Washer	1
22	Washer	1
23	TCE screw	1

Hydraulic pulley tightening kit - Code LA40530		
Pos.	Description	Q.ty
21	Washer	1
22	Washer	1
23	TCE screw	1

Washer kit - Code LA95153/10		
Pos.	Description	Q.ty
21	Washer	10

Washer kit - Code LA34009/10		
Pos.	Description	Q.ty
22	Washer	10

Kit TCE screw - Code LA96031/5		
Pos.	Description	Q.ty
23	TCE screw	5

Kit TCE screw - Code LA18198/5		
Pos.	Description	Q.ty
25	TCE screw	5

Kit TCE screw - Code LA37406/5		
Pos.	Description	Q.ty
26	TCE screw	5

Nut kit - Code LA81010/10		
Pos.	Description	Q.ty
27	Nut	10

TE screw kit - Code LA95062/10		
Pos.	Descrizione	Q.tà
30	TE screw	10

Piston kit - Code LA40469		
Pos.	Description	Q.ty
33	Retaining ring	1
35	Hydraulic piston	1

Spring kit - Code LA40470		
Pos.	Description	Q.ty
33	Retaining ring	1
34	Piston spring retainer	1
36	Piston return spring	1

Spring piston complete kit - Code LA40531		
Pos.	Description	Q.ty
33	Retaining ring	1
34	Piston spring retainer	1
35	Hydraulic piston	1
36	Piston return spring	

Diaphragm kit - Code LA40130		
Pos.	Description	Q.ty
37	Diaphragm spacer	1
38	Diaphragm	1
39	Diaphragm shim	1

Copper washer kit - Code LA33012/5		
Pos.	Description	Q.ty
43	Copper washer kit	5

Washer kit - Code LA33005/6		
Pos.	Description	Q.ty
47	Washer	6

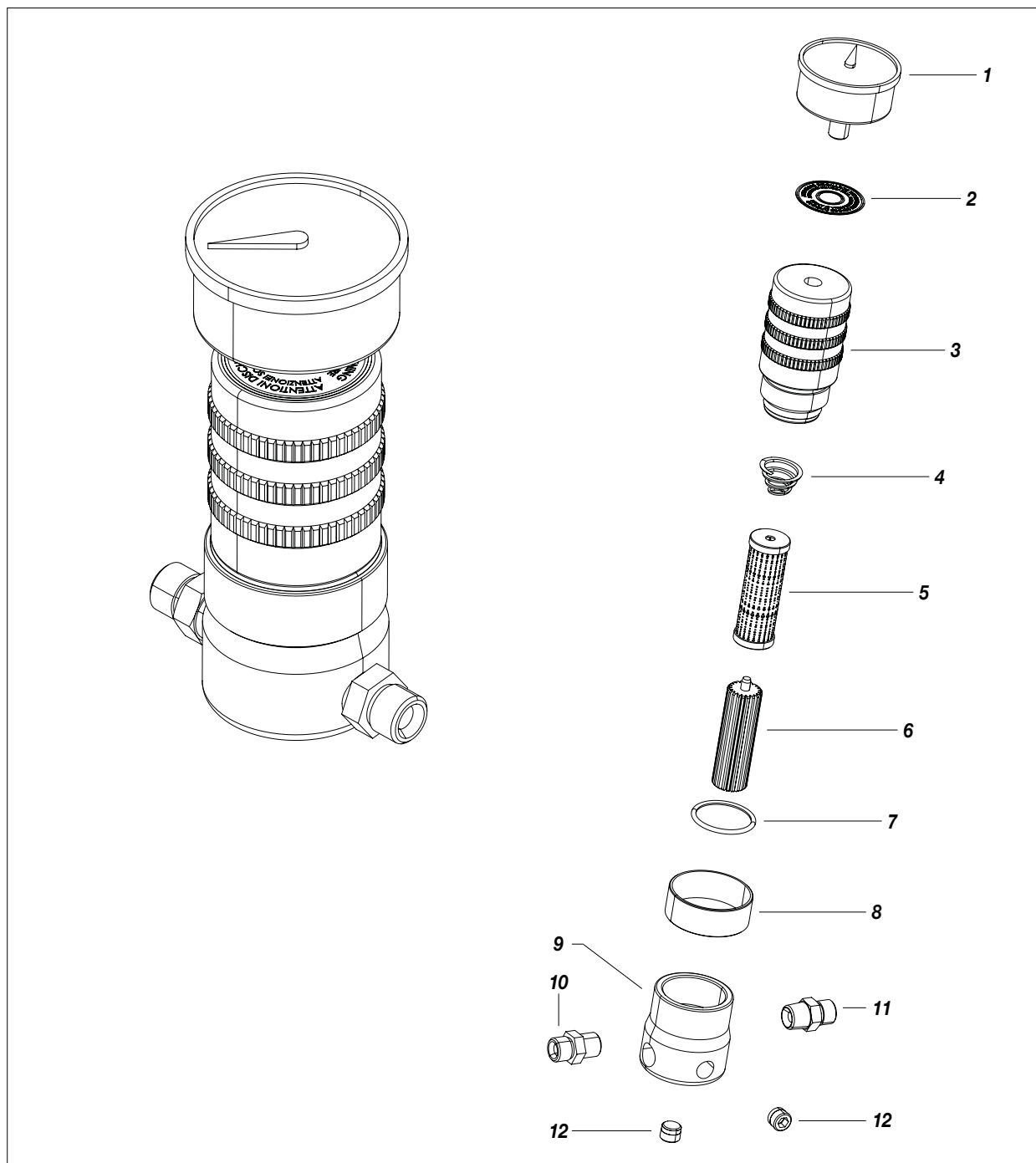
TCE screw kit - Code LA33004/5		
Pos.	Description	Q.ty
48	TCE screw	5

Check valve kit - Code LA40131		
Pos.	Description	Q.ty
49	Ball seat gasket	1
50	Check valve unit	1

Filter strainer kit - Code LA40472		
Pos.	Description	Q.ty
52	Filter strainer	1
53	O-ring	1

R FILTER GROUP REF. LA18401

WARNING: Always indicate code and quantity for each part required.

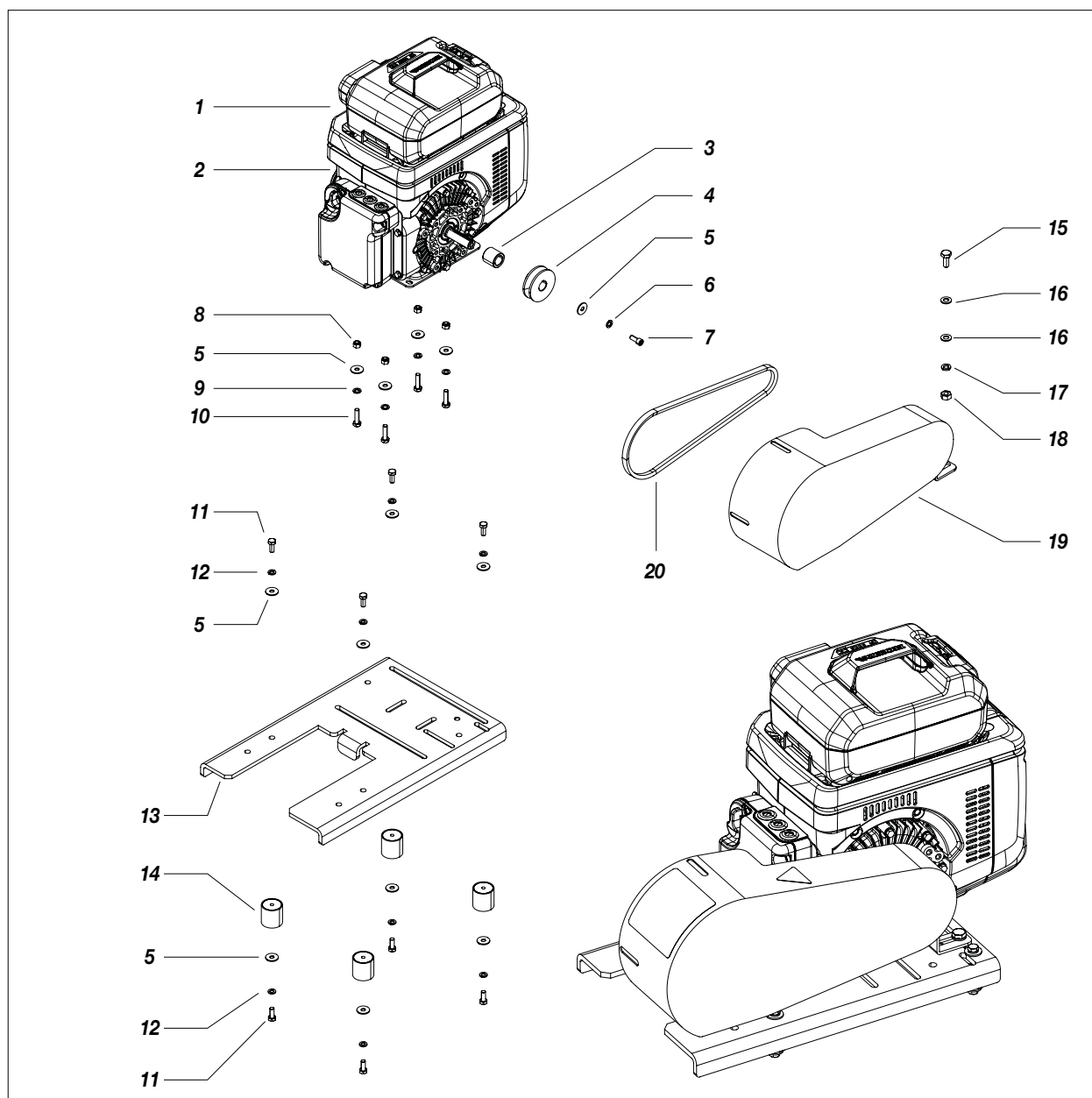


Pos.	Code	Description	Q.ty
1	LA53011/1	Manometer 0-400 bar	1
2	LA10107SAM	Label	1
3	LA16201	Filter tank	1
4	LA96202	Spring	1
5	LA16205	Standard sieve 60	1
	LA16204	Standard sieve 100	1
	LA16203	Standard sieve 200	1

Pos.	Code	Description	Q.ty
6	LA16202	Sieve support	1
7	LA96203	Gasket	1
8	LA4548	Sleeve	1
9	LA96204	Filter bane	1
10	LA95284	Joint	1
11	LA96206	Nipple	1
12	LA96205	Tapered plug	2

S POSITIONING UNIT WITH ELECTRIC MOTOR AND BATTERY REF. LA18400

WARNING: Always indicate code and quantity for each part required.



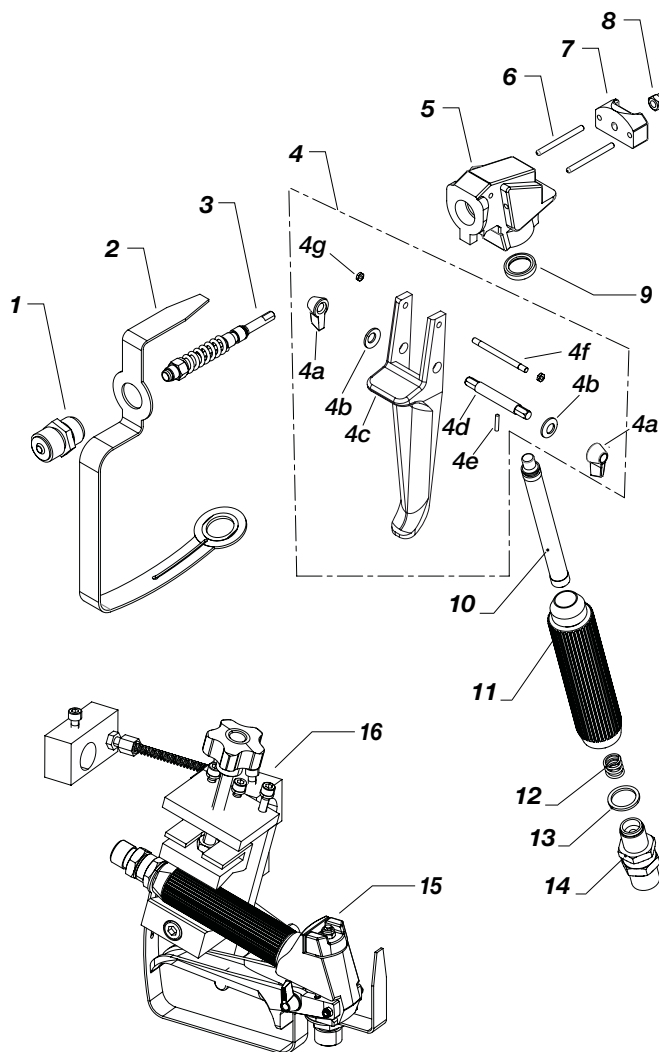
Pos.	Code	Description	Q.ty
1	LA200621	Battery	1
2	LA200620	Electric motor	1
3	LA18325	Spacer	1
4	LA18318	Pulley	1
5	LA32024/1	Washer	13
6	LA34009	Washer	1
7	LA18935	Screw	1
8	LA3637	Nut	4
9	LA32024	Washer	4
10	LA8385	Screw	4

Pos.	Code	Description	Q.ty
11	LA2003838	Screw	8
12	LA96030	Washer	8
13	LA200388	Plate	1
14	LA81107/1	Vibration damper	4
15	LA4409	Screw	1
16	LA81033	Washer	2
17	LA95096	Washer	1
18	LA95158	Nut	1
19	LA200394	Cover	1
20	LA4752	Belt	1

T HIGH PRESSURE GUN AT250

WARNING: Always indicate code and quantity for each part required.

Components	Pos. 5 - 11023 - Linkage
LA11005/3	Ball
LA11204/1	Ball housing
LA11205/2	Spring
LA11205/4	Linkage
LA11205/5	Sleeve
LA11205/6	Ring sleeve
LA11205/7	Bushing



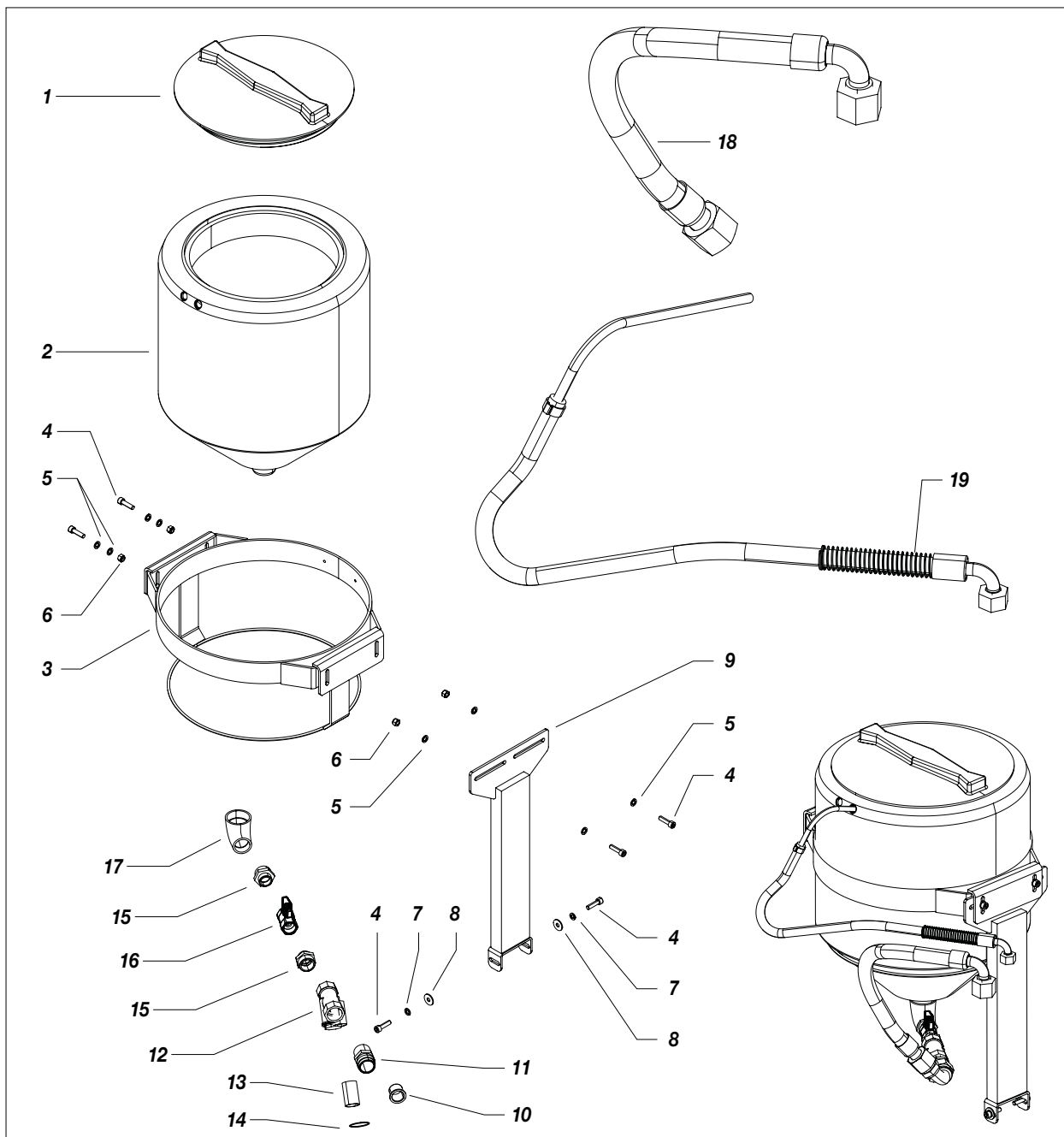
Pos.	Code	Description
1	LA11004	Sleeve
2	LA11006 + LA11032	Hand safety + 3 screws TSP 3x8
3	LA11203	Complete rod
4	LA11008	Complete trigger
4a		Safety lever
4b		Brake washer
4c		Trigger
4d		Pin
4e		Spinet
4f		Pin
4g		Self-locking nut
5	LA11206	Gun body
6	LA11207	Spinet
7	LA11208	Plate

Pos.	Code	Description
8	LA11209	Self-locking nut M5
9	LA11020	Copper gasket
10	-	Filter
11	LA11018	Handgrip
12	LA11017	Spring
13	LA32010	Copper gasket
14	LA11015 LA11155	Articulated joint M16x1,5 Articulated joint 1/4"
15	LA11210	AT250 complete gun
16	LA4448	Compleat gun holder unit

*Nozzle code/angle	Ø inches	Ø mm	Type of products	Rec. filter
SFC07-20	0,007"	0,18	Clear and pigmented coats, fine enamels	Red 200 M
SFC07-40				
SFC09-20	0,009"	0,23	Nitrocellulose, synthetic, and polyurethane paints	Yellow 100 M
SFC09-40				
SFC11-20	0,011"	0,28		
SFC11-40				
SFC13-20	0,013"	0,33		
SFC13-40				
SFC13-60				
SFC15-20	0,015"	0,38	Anti-rust primers	
SFC15-40				
SFC15-60				
SFC17-20	0,017"	0,43		
SFC17-40				
SFC17-60				
SFC19-20	0,019"	0,48	Primers, zinc-rich coatings, inorganic coatings, water-based paints	
SFC19-40				
SFC19-60				
SFC21-20	0,021"	0,53		
SFC21-40				
SFC21-60				
SFC23-20	0,023"	0,58		
SFC23-40				
SFC23-60				
SFC25-20	0,025"	0,63		White 60 M
SFC25-40				
SFC25-60				
SFC27-20	0,027"	0,68		
SFC27-40				
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		
SFC43-40	0,043"	1,10		Green 30 M
SFC43-60				
SFC43-80				
SFC45-60	0,045"	0,15		
SFC47-60	0,047"	1,20		
SFC51-60	0,051"	1,30		
SFC51-80				

U COMPLETE 50L TANK REF. LA4895

WARNING: Always indicate code and quantity for each part required.

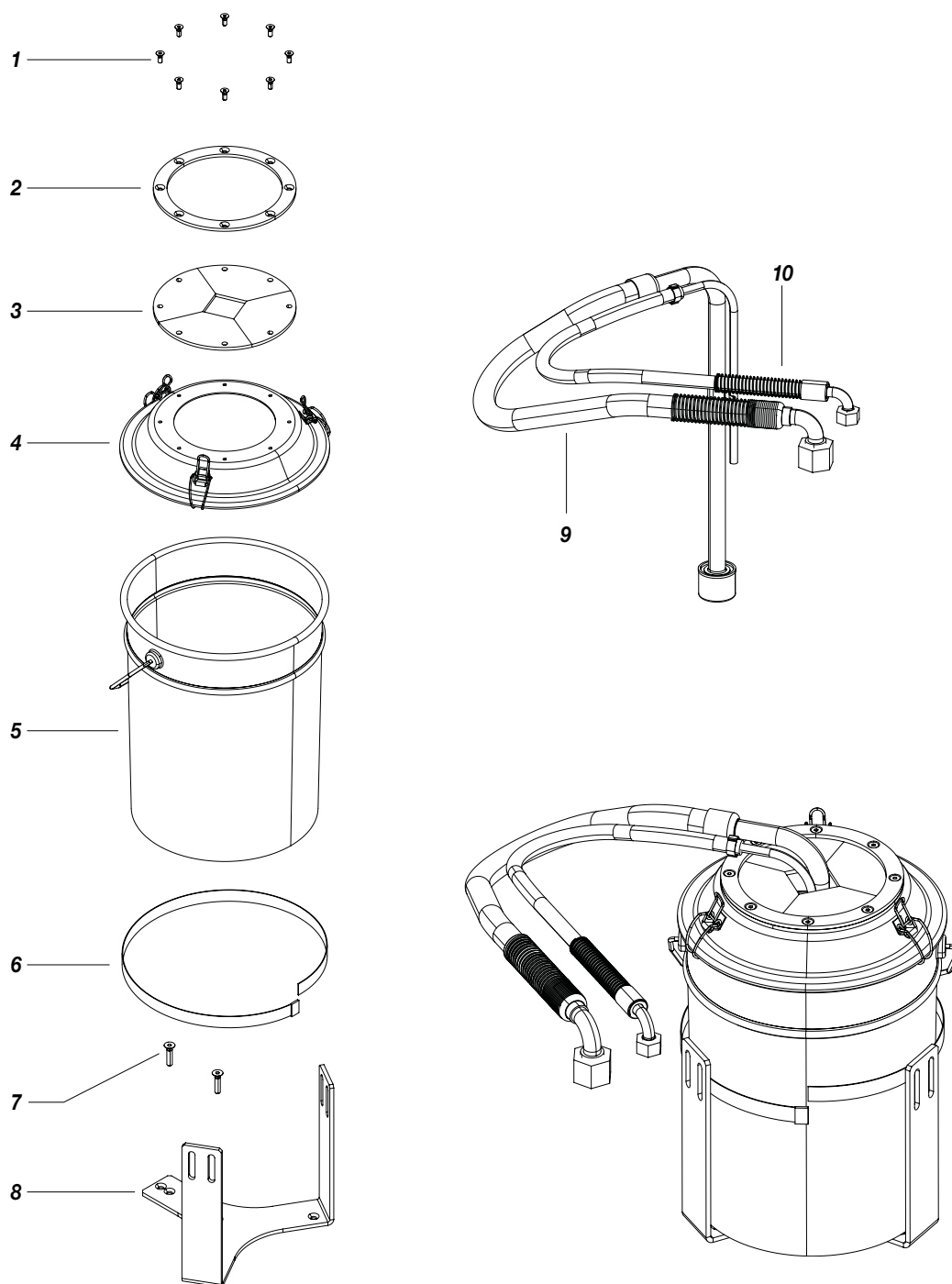


Pos.	Code	Description	Q.ty
1	LA18249/1	Cover	1
2	LA18249	Tank	1
3	LA18246	Retaining basket	1
4	LA901568	Screw	6
5	LA32024	Washer	8
6	LA3637	Nut	4
7	LA96030	Washer	2
8	LA32024/1	Washer	2
9	LA4894	Support	1
10	LA96099	Inlet sleeve	1

Pos.	Code	Description	Q.ty
11	LA95032	Fitting	1
12	LA200537	Y-fitting	1
13	LA200538	Filter	1
14	LA200431	Or	1
15	LA20817	Adaptor	2
16	LA20825	Valve	1
17	LA20833	Elbow	1
18	LA18221/0	Product delivery hose	1
19	LA16679/0	Recirculation hose	1

V COMPLETE 23L TANK REF. LA4890

WARNING: Always indicate code and quantity for each part required.



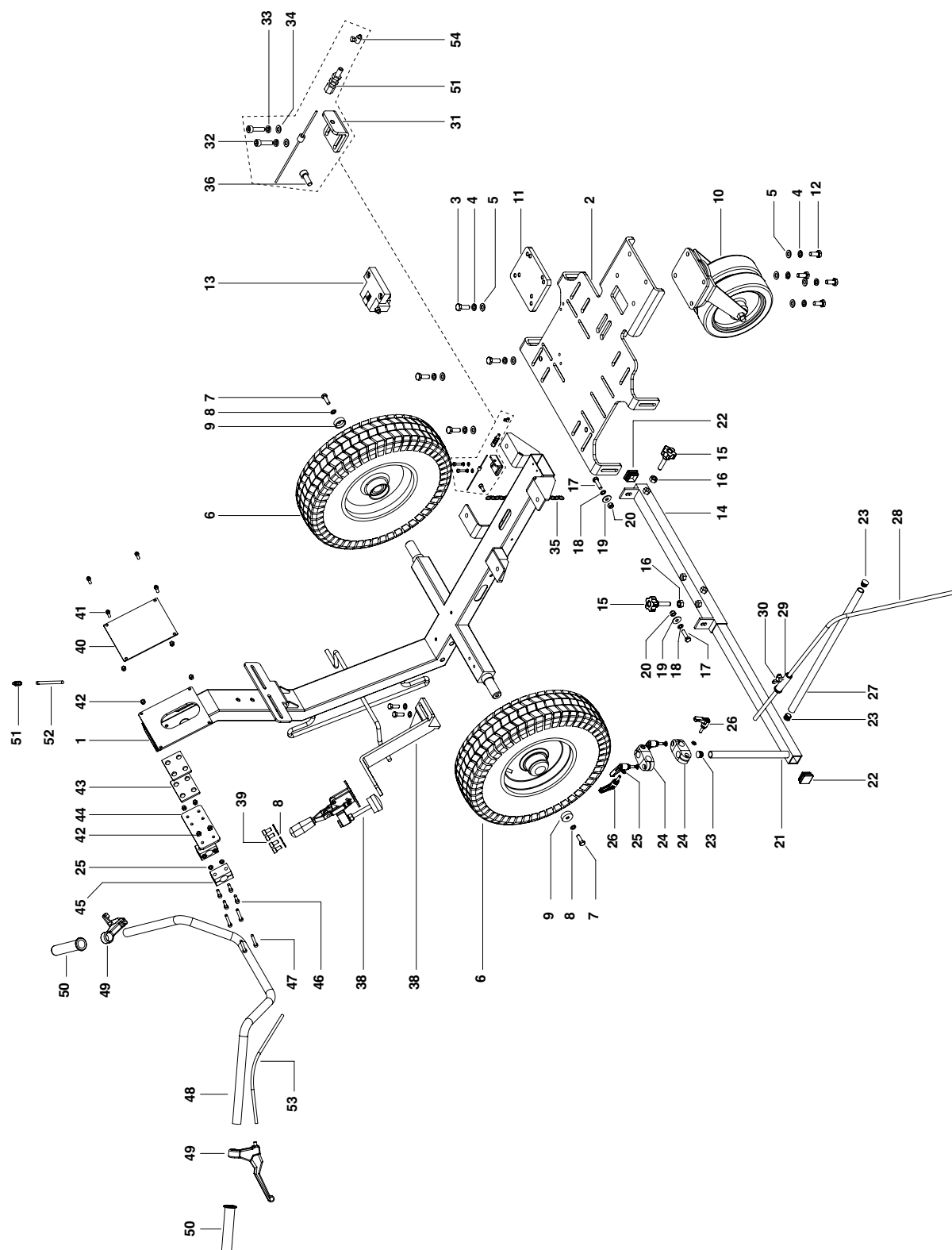
Pos.	Code	Description	Q.ty
1	LA4314	Screw	8
2	LA4308	Ring	1
3	LA4309	Rubber	4
4	LA4109	Cover complete with latches	1
5	LA4064	Tank	1

Pos.	Code	Description	Q.ty
6	LA4274	Belt	1
7	LA69014	Screw	2
8	LA4250	Tank support	1
9	LA16682	Product delivery hose	1
10	LA16679/0	Recirculation hose	1

Page intentionally left blank

W COMPLETE FRAME LA4874

WARNING: Always indicate code and quantity for each part required.



Pos.	Code	Description	Q.ty
1	LA4864R	Single-rail carriage	1
2	LA4871R	Primary plate Pro. Liner	1
3	ref. Kit LA95156/5	Hex head screw (TE screw)	4
4	ref. Kit LA95096/10	Washer	9
5	ref. Kit LA81033/10	Washer	8
6	LA4461R	Wheel	2
7	ref. Kit LA8371/5	Hex head screw (TE screw)	4
8	ref. Kit LA96030/10	Washer	6
9	LA4492R	Bearing lock cap	2
10	LA4259R	Twin pivoting wheel Pro. Liner	1
11	LA4872R	Secondary plate Pro. Liner	1
12	ref. Kit LA4409/5	Hex head screw (TE Screw)	4
13	-	Wheel stopper	1
14	LA4429/1R	Fixed part of telescopic arm	1
15	LA4490R	Handwheel	2
16	ref. Kit LA95158/10	Nut	3
17	ref. Kit LA8385/5	Hex head screw (TE Screw)	2
18	ref. Kit LA32024/10	Washer	4
19	ref. Kit LA32024/1/10	Washer	2
20	ref. Kit LA3637/10	Nut	4
21	LA4429R	Gun support arm	1
22	ref. Kit LA4303/10	Ribbed plug 30x30	2
23	ref. Kit LA4304/10	Pipe cap	3
24	LA4460R	Cross clamp 18	2
25	ref. Kit LA54003/10	Washer	8
26	LA4489R	Clamp handle	4
27	LA4450R	Gun positioning tube	1

Pos.	Code	Description	Q.ty
28	LA26022R	Laser pointer rod	1
29	LA26021R	Bushing for laser sight kit	1
30	ref. Kit LA24210/5	Thumb screw	1
31	LA4870R	Cable tensioner plate Pro. Liner	1
32	ref. Kit LA32029/5	Sockethead capscrew (TCEscrew)	2
33	ref. Kit LA32028/10	Washer	2
34	ref. Kit LA33023/10	Washer	2
35	LA18456R	Straight link chain	1
36	ref. Kit LA58004/5	Sockethead capscrew (TCEscrew)	1
37	LA4867R	Brake support	1
38	LA4465R	Brake unit assembly	1
39	ref. Kit LA200349/5	Sockethead capscrew (TCEscrew)	4
40	LA4923R	Closing plate	1
41	ref. Kit LA200348/5	Sockethead capscrew (TCEscrew)	4
42	ref. Kit LA8042/10	Nut	8
43	ref. Kit LA4824/2	Anti-vibration rubber	2
44	LA4562R	Anti-vibration plate	1
45	LA4866R	Collar	2
46	ref. Kit 31106/5	Sockethead capscrew (TCEscrew)	4
47	ref. Kit LA4073/4	Sockethead capscrew (TCEscrew)	4
48	LA4865R	Handlebar Pro. Liner	1
49	LA464R	Control lever Liner	2
50	ref. Kit LA4047/2	Handlebar grip	2
51	ref. Kit LA4265/5	Cable strainer M6	2
52	LA4261R	Metal control sheath assembly	1
53	LA4045R	Control cable Liner	1
54	ref. Kit LA4253/5	Wire end clamp 1-2 mm	1

TE Screw kit - Code LA95156/5		
Pos.	Description	Q.ty
3	TE screw	5

TE Screw kit - Code LA4409/5		
Pos.	Description	Q.ty
12	TE screw	5

Washer kit - Code LA95096/10		
Pos.	Description	Q.ty
4	Washer	10

Nut kit - Code LA95158/10		
Pos.	Description	Q.ty
16	Nut	10

Washer kit - Cod. LA81033/10		
Pos.	Description	Q.ty
5	Washer	10

TE Screw kit - Code LA8385/5		
Pos.	Description	Q.ty
17	TE screw	5

TE Screw kit - Code LA8371/5		
Pos.	Description	Q.ty
7	TE screw	5

Washer kit - Code LA32024/10		
Pos.	Description	Q.ty
18	Washer	10

Washer kit - Code LA96030/10		
Pos.	Description	Q.ty
8	Washer	10

Washer kit- Code LA32024/1/10		
Pos.	Description	Q.ty
19	Washer	10

Nut kit - Code LA3637/10		
Pos.	Description	Q.ty
20	Nut	10

Kit Vite TCE - Code LA200349/5		
Pos.	Description	Q.ty
39	Vite TCE	5

Ribbed plug kit 30x30 - Code LA4303/10		
Pos.	Description	Q.ty
22	Ribbed plug 30x30	10

Kit Vite TCE - Code LA200348/5		
Pos.	Description	Q.ty
41	Vite TCE	5

Pipe cap kit - Cod. LA4304/10		
Pos.	Description	Q.ty
23	Pipe cap	10

Nut kit - Code LA8042/10		
Pos.	Description	Q.ty
42	Nut	10

Kit Rondella - Code LA54003/10		
Pos.	Description	Q.ty
25	Washer	5

Anti-vibration rubber kit - Code LA4824/2		
Pos.	Description	Q.ty
43	Anti-vibration rubber	2

Thumb screw kit - Code LA24210/5		
Pos.	Description	Q.ty
30	Thumb screw	5

TCE screw kit - Code LA31106/5		
Pos.	Description	Q.ty
46	TCE screw	5

TCE screw kit - Code LA32029/5		
Pos.	Description	Q.ty
32	TCE screw	5

TCE screw kit - Code LA7043/4		
Pos.	Description	Q.ty
47	TCE screw	4

Washer kit - Code LA32028/10		
Pos.	Description	Q.ty
33	Washer	10

Handlebar grip kit - Code LA4047/2		
Pos.	Description	Q.ty
50	Handlebar grip	2

Washer kit - Code LA33023/10		
Pos.	Description	Q.ty
34	Washer	10

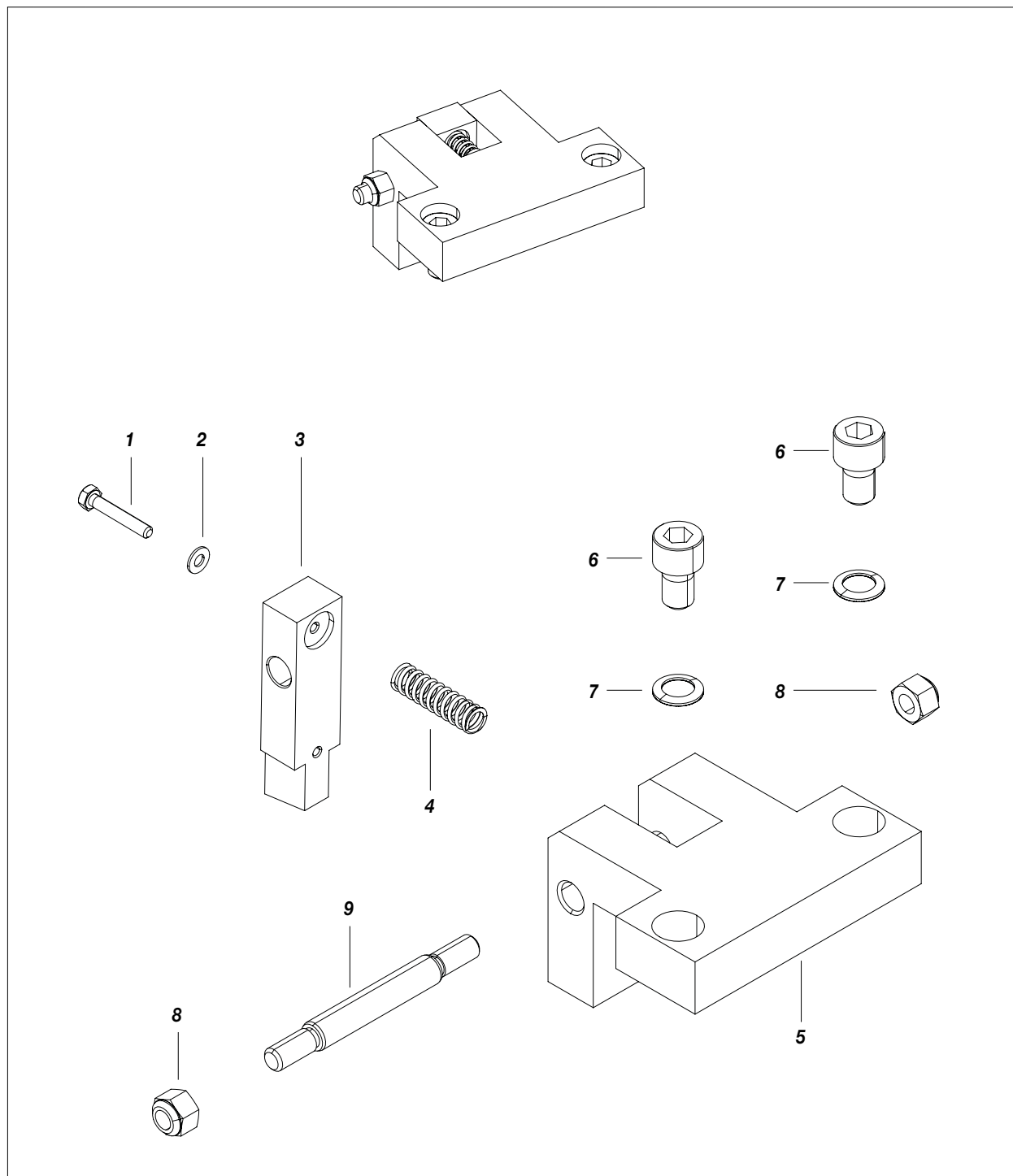
Cable strainer M6 kit - Code LA4265/5		
Pos.	Description	Q.ty
51	Cable strainer M6	5

TCE screw kit - Code LA58004/5		
Pos.	Description	Q.ty
36	TCE screw	5

Wire end clamp 1-2 mm - Code LA4253/5		
Pos.	Description	Q.ty
54	Wire end clamp 1-2 mm	5

X COMPLETE STEERING UNIT REF. LA4876

WARNING: Always indicate code and quantity for each part required.



Pos.	Code	Description	Q.ty
1	LA4739	Screw	1
2	LA5339	Washer	1
3	LA4875	Pin	1
4	LA9238	Sprng	1
5	LA4737	Wheel stop	1

Pos.	Code	Description	Q.ty
6	LA4841	Screw	2
7	LA33005	Washer	2
8	LA3637	Nut	2
9	LA4735	Pin	1

Page intentionally left blank

**CE DECLARATION OF CONFORMITY****Company**

LARIUS srl
Via Antonio Stoppani 21 - 23801 Calolziocorte (LC) ITALY
Tel: +39 0341 621152
Fax: +39 0341 621243
E-mail: larius@larius.com

Dichiara sotto la propria responsabilità che il prodotto:

MIRO' E-LINER
Electrical professional airless diaphragm road marking machines

complies with the directives: - EC Directive 2006/42 Machinery Directive

furthermore to the
harmonized standards: - UNI EN ISO 12100-1/-2
Machinery safety, basic concepts, general principles of design. Basic
terminology, methodology. Technical principles.

This declaration relates exclusively to the product in the state in which it was placed on the market, and excludes components or modifications which are added or carried out subsequently by end user.

Signature



Pierangelo Castagna
Managing Director

Calolziocorte, 10 Marzo 2026
Luogo / Date

**SAMOA INDUSTRIAL, S.A. - HEADQUARTERS
SPAIN AND EXPORT MARKETS**

POL. IND. PORCEYO, I-14 - CAMINO DEL FONTÁN, 831
E-33392 GIJÓN (ASTURIAS), SPAIN
TEL.: +34 985 381 488 - FAX: + 34 985 147 213

**SAMOA S.A.R.L.
FRANCE**

P.A.E.I. DU GIESSEN
3, RUE DE BRISCHBACH
67750 SCHERWILLER, FRANCE
TEL.: +33 3 88 82 79 62 - FAX: +33 3 88 82 77 88

**SAMOA ITALIA - LARIUS
ITALY**

VIA ANTONIO STOPPANI, 21
23801 CALOLZIOCORTE (LC) ITALY
Tel.: +39 0341 621152 - Fax: + 39 0341 621242

SAMOA FLOWTECH GMBH

GERMANY, AUSTRIA, SWITZERLAND, THE NETHERLANDS AND GREECE
AM OBEREICHHOLZ 4
D - 97828 MARKTHEIDENFELD, GERMANY
TEL.: +49 9391 9826 0 - FAX: +49 9391 98 26 50

SAMOA LTD.

UNITED KINGDOM AND REP. OF IRELAND

ASTURIAS HOUSE - BARRS FOLD ROAD
WINGATES INDUSTRIAL PARK
WESTHOUGHTON, BL5 3XP, UK
TEL.: +44 1942 850600 - FAX: +44 1942 812160

SAMOA CORPORATION

USA AND CANADA
90 MONTICELLO ROAD
WEAVERVILLE, NC 28787, USA
TEL. +1 (828) 645-2290 - FAX: +1 (828) 658 0840



©Copyright, SAMOA INDUSTRIAL, S.A.

SAMOA Industrial, S.A. is an ISO 9001, ISO 14001 and ISO 45001 certified company.



Contact us today!

Visit www.samoaindustrial.com for more information.

INSTRUCTION MANUAL AVAILABLE IN:		
	IT	https://www.larius.com/wp-content/uploads/MIRO_ELINER_I.pdf
	EN	https://www.larius.com/wp-content/uploads/MIRO_ELINER_UK.pdf