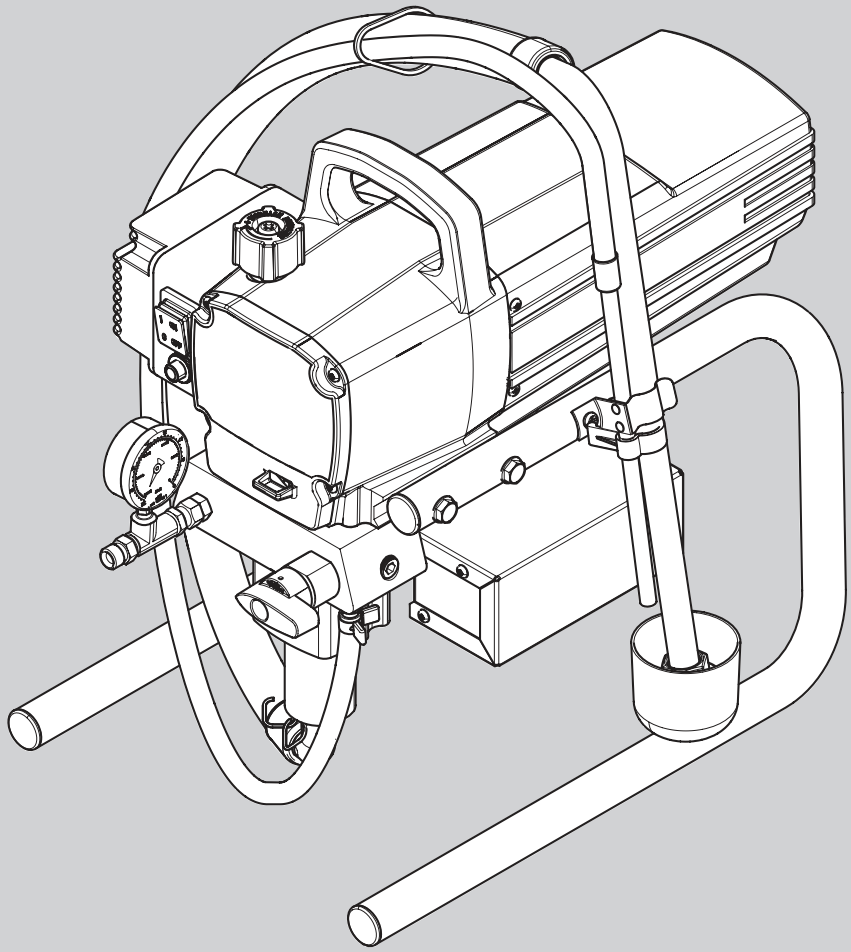
WAGNER



PROSPRAY 20

GB E P

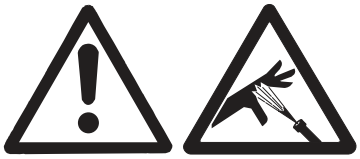
OWNER'S MANUAL • INSTRUCCIONES DE USO •
MANUAL DEL PROPRIETÁRIO

wagner-group.com

0419 • Form No. 0532487B / Doc. # 11291027

Warning!

Attention: Danger of injury by injection!
Airless units develop extremely high spraying pressures.



1

Never put your fingers, hands or any other parts of the body into the spray jet!

Never point the spray gun at yourself, other persons or animals.

Never use the spray gun without safety guard.

Do not treat a spraying injury as a harmless cut. In case of injury to the skin through coating materials or solvents, consult a doctor immediately for quick and expert treatment. Inform the doctor about the coating material or solvent used.

2

The operating instructions state that the following points must always be observed before starting up:

1. Faulty units must not be used.
2. Secure Wagner spray gun using the trigger lock on the trigger.
3. Ensure that the unit is properly earthed.
4. Check allowable operating pressure of high-pressure hose and spray gun.
5. Check all connections for leaks.

3

The instructions regarding regular cleaning and maintenance of the unit must be strictly observed.

Before any work is done on the unit or for every break in work the following rules must be observed:

1. Release the pressure from spray gun and hose.
2. Secure the Wagner spray gun using the trigger lock on the trigger.
3. Switch off unit.

Be safety conscious!

1 SAFETY REGULATIONS FOR AIRLESS SPRAYING

1.1 EXPLANATION OF SYMBOLS USED

This manual contains information that must be read and understood before using the equipment. When you come to an area that has one of the following symbols, pay particular attention and make certain to heed the safeguard.


→ This symbol indicates a potential hazard that may cause serious injury or loss of life. Important safety information will follow.

→ This symbol indicates a potential hazard to you or to the equipment. Important information that tells how to prevent damage to the equipment or how to avoid causes of minor injuries will follow.


→ Danger of skin injection


→ Danger of fire from solvent and paint fumes


→ Danger of explosion from solvent, paint fumes and incompatible materials


→ Danger of injury from inhalation of harmful vapors


→ Notes give important information which should be given special attention.

HAZARD: INJECTION INJURY

Attention: Danger of injury by injection! A high pressure stream produced by this equipment can pierce the skin and underlying tissues, leading to serious injury and possible amputation.

Do not treat a spraying injury as a harmless cut. In case of injury to the skin through coating materials or solvents, consult a doctor immediately for quick and expert treatment. Inform the doctor about the coating material or solvent used.

PREVENTION:

- NEVER aim the gun at any part of the body.
- NEVER allow any part of the body to touch the fluid stream. DO NOT allow body to touch a leak in the fluid hose.
- NEVER put your hand in front of the gun. Gloves will not provide protection against an injection injury.
- ALWAYS lock the gun trigger, shut the fluid pump off and release all pressure before servicing, cleaning the tip guard, changing tips, or leaving unattended. Pressure will not be released by turning off the engine. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure.
- ALWAYS keep tip guard in place while spraying. The tip guard provides some protection but is mainly a warning device.
- ALWAYS remove the spray tip before flushing or cleaning the system.
- NEVER use a spray gun without a working trigger lock and trigger guard in place.
- All accessories must be rated at or above the maximum operating pressure range of the sprayer. This includes spray tips, guns, extensions, and hose.

HAZARD: HIGH PRESSURE HOSE

The paint hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin. Inspect the hose before each use.

PREVENTION:

- Avoid sharp bending or kinking of the high-pressure hose. The smallest bending radius amounts to about 20 cm.
- Do not drive over the high-pressure hose. Protect against sharp objects and edges.
- Replace any damaged high-pressure hose immediately.
- Never repair defective high-pressure hoses yourself!
- Electrostatic charging of spray guns and the high-pressure hose is discharged through the high-pressure hose. For this reason the electric resistance between the connections of the high-pressure hose must be equal to or lower than 1MΩ.
- For reasons of function, safety and durability use only original Wagner high-pressure hoses.
- Before each use, check all hoses for cuts, leaks, abrasion or bulging of cover. Check for damage or movement of couplings. Immediately replace the hose if any of these conditions exist. Never repair a paint hose. Replace it with another earthed high-pressure hose.
- Make sure power cord, air hose and spray hoses are routed in such a manner to minimize slip, trip and fall hazard.

HAZARD: EXPLOSION OR FIRE

Flammable vapors, such as solvent and paint vapors, in work area can ignite or explode.

PREVENTION:

- Do not use materials with a flashpoint below 38° C (100° F). Flashpoint is the temperature at which a fluid can produce enough vapors to ignite.
- Do not use the unit in work places which are covered by the explosion protection regulations.
- Provide extensive exhaust and fresh air introduction to keep the air within the spray area free from accumulation of flammable vapors.
- Avoid all ignition sources such as static electricity sparks, electrical appliances, flames, pilot lights, hot objects, and sparks from connecting and disconnecting power cords or working light switches.
- Do not smoke in spray area.
- Place sprayer sufficient distance from the spray object in a well ventilated area (add more hose if necessary). Flammable vapors are often heavier than air. Floor area must be extremely well ventilated. The pump contains arcing parts that emit sparks and can ignite vapors.
- The equipment and objects in and around the spray area must be properly grounded to prevent static sparks.
- Use only conductive or earthed high pressure fluid hose. Gun must be earthed through hose connections.
- Power cord must be connected to a grounded circuit (electric units only).
- Always flush unit into separate metal container, at low pump pressure, with spray tip removed. Hold gun firmly against side of container to ground container and prevent static sparks.
- Follow material and solvent manufacturer's warnings and instructions. Be familiar with the coating material's SDS sheet and technical information to ensure safe use.
- Use lowest possible pressure to flush equipment.
- When cleaning the unit with solvents, the solvent should never be sprayed or pumped back into a container with a small opening (bunghole). An explosive gas/air mixture can arise. The container must be earthed.
- Do not use a paint or solvent containing halogenated hydrocarbons. Such as chlorine, bleach, mildewcide, methylene chloride and trichloroethane. They are not compatible with aluminum. Contact the coating supplier about compatibility of material with aluminum.

HAZARD: HAZARDOUS VAPORS

Paints, solvents, and other materials can be harmful if inhaled or come in contact with body. Vapors can cause severe nausea, fainting, or poisoning.

PREVENTION:

- Wear respiratory protection when spraying. Read all instructions supplied with the mask to be sure it will provide the necessary protection.
- All local regulations regarding protection against hazardous vapors must be observed.
- Wear protective eyewear.
- Protective clothing, gloves and possibly skin protection cream are necessary for the protection of the skin. Observe the regulations of the manufacturer concerning coating materials, solvents and cleaning agents in preparation, processing and cleaning units.

HAZARD: GENERAL

This product can cause severe injury or property damage.

PREVENTION:

- Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.
- Pulling the trigger causes a recoil force to the hand that is holding the spray gun. The recoil force of the spray gun is particularly powerful when the tip has been removed and a high pressure has been set on the airless pump. When cleaning without a spray tip, set the pressure control knob to the lowest pressure.
- Use only manufacturer authorized parts. User assumes all risks and liabilities when using parts that do not meet the minimum specifications and safety devices of the pump manufacturer.
- ALWAYS follow the material manufacturer's instructions for safe handling of paint and solvents.
- Clean up all material and solvent spills immediately to prevent slip hazard.
- Wear ear protection. This unit can produce noise levels above 85 dB(A).
- Never leave this equipment unattended. Keep away from children or anyone not familiar with the operation of airless equipment.
- Do not spray on windy days.
- The device and all related liquids (i.e. hydraulic oil) must be disposed of in an environmentally friendly way.

1.2 ELECTRIC SAFETY

Electric models must be earthed. In the event of an electrical short circuit, earthing reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having an earthing wire with an appropriate earthing plug. Connection to the mains only through a special feed point, e.g. through an error protection insallation with INF < 30 mA.

DANGER — Work or repairs at the electrical equipment may only be carried out by a skilled electrician. No liability is assumed for incorrect installation. Switch the unit off. Before all repair work, unplug the power plug from the outlet.

Danger of short-circuits caused by water ingressing into the electrical equipment. Never spray down the unit with high-pressure or high-pressure steam cleaners.

WORK OR REPAIRS AT THE ELECTRICAL EQUIPMENT:

These may only be carried out by a skilled electrician. No liability is assumed for incorrect installation.

1.3 ELECTROSTATIC CHARGING (FORMATION OF SPARKS OR FLAMES)

Electrostatic charging of the unit may occur during spraying due to the flow speed of the coating material. These can cause sparks and flames upon discharge. The unit must therefore always be earthed via the electrical system. The unit must be connected to an appropriately-grounded safety outlet.

An electrostatic charging of spray guns and the high-pressure hose is discharged through the high-pressure hose. For this reason the electric resistance between the connections of the high-pressure hose must be equal to or lower than 1 MΩ.

2 GENERAL VIEW OF APPLICATION

2.1 APPLICATION

The unit performance is conceived so that its use is possible on building sites for small- to middle-area dispersion work.

EXAMPLES OF OBJECTS TO BE SPRAYED

The sprayer is able for all common varnishing jobs like doors, door frames, balustrades, furniture, woodencladding, fences, radiators (heating) and steel parts.

2.2 COATING MATERIALS

PROCESSIBLE COATING MATERIALS

	Pay attention to the Airless quality of the coating materials to be processed.

Dilutable lacquers and paints or those containing solvents, two-component coating materials, dispersions, latex paints, release agents, oils, undercoats, primers, and fillers.

No other materials should be used for spraying without Wagner's approval.

FILTERING

Despite suction filter and insertion filter in the spray gun, filtering of the coating material is generally advisable.

Stir coating material before commencement of work.

	Attention: Make sure, when stirring up with motor-driven agitators that no air bubbles are stirred in. Air bubbles disturb when spraying and can, in fact, lead to interruption of operation.

VISCOSITY

With this unit it is possible to process highly viscous coating materials of up to around 20.000 MPa·s.

If highly viscous coating materials cannot be taken in by suction, they must be diluted in accordance with the manufacturer's instructions.

TWO-COMPONENT COATING MATERIAL

The appropriate processing time must be adhered to exactly. Within this time rinse through and clean the unit meticulously with the appropriate cleaning materials.

COATING MATERIALS WITH SHARP-EDGED ADDITIONAL MATERIALS

These have a strong wear and tear effect on valves, high-pressure hose, spray gun and tip. The durability of these parts cane be reduced appreciably through this.

3 DESCRIPTION OF UNIT

3.1 AIRLESS PROCESS

The main areas of application are thick layers of highly viscous coating material for large areas and a high consumption of material.

A piston pump takes in the coating material by suction and conveys it to the tip. Pressed through the tip at a pressure of up to a maximum of 214 bar (21.4 MPa), the coating material is atomised. This high pressure has the effect of micro fine atomisation of the coating material.

As no air is used in this process, it is described as an AIRLESS process.

This method of spraying has the advantages of finest atomisation, cloudless operation and a smooth, bubble-free surface. As well as these, the advantages of the speed of work and convenience must be mentioned.

3.2 FUNCTIONING OF THE UNIT

In the following there is a short description of the technical construction for better understanding of the function.

Wagner ProSpray 20 units are electrically driven high-pressure spraying units.

A gear unit transfers the driving force to a crankshaft. The crankshaft moves the pistons of the material feed pump up and down.

The inlet valve is opened automatically by the upwards movement of the piston. The outlet valve is opened when the piston moves downward.

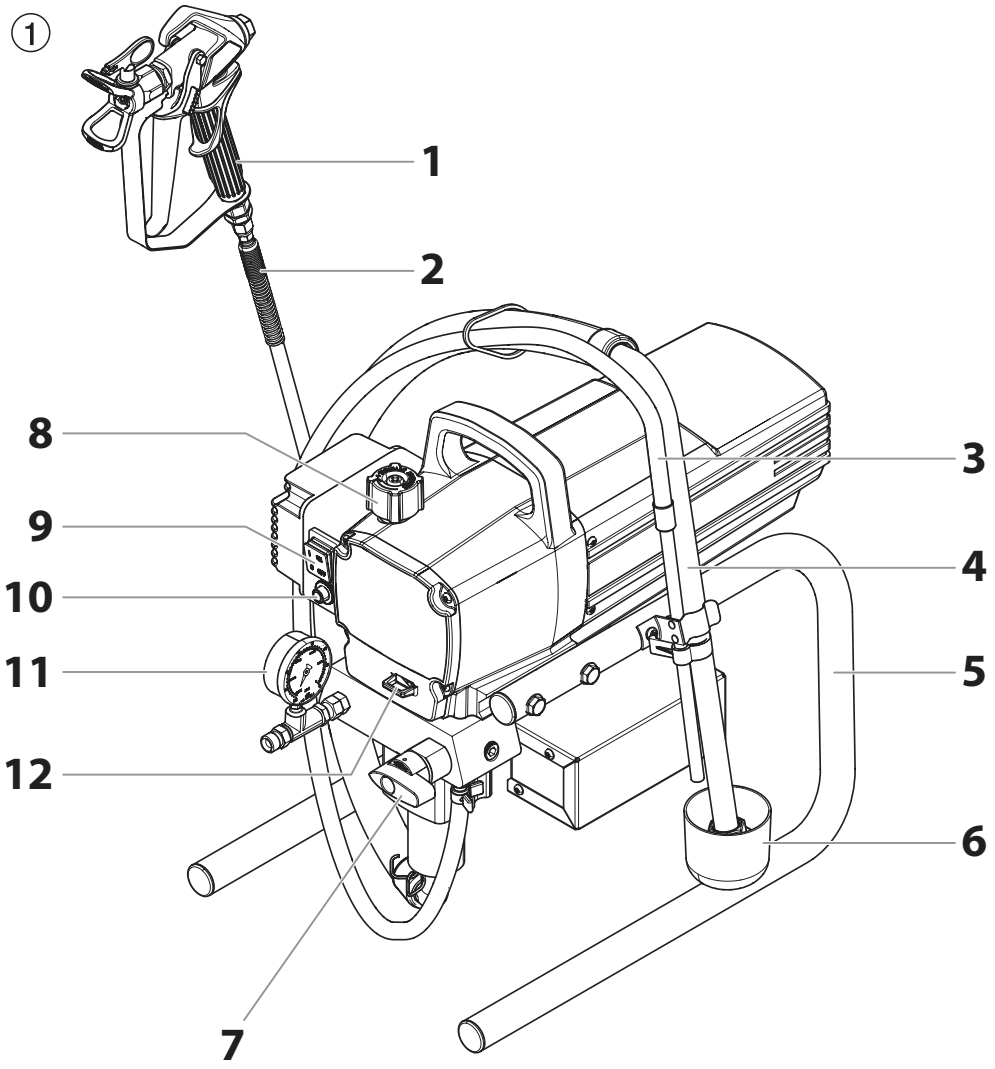
The coating material flows under high pressure through the high-pressure hose to the spray gun. When the coating material exits from the tip it atomizes.

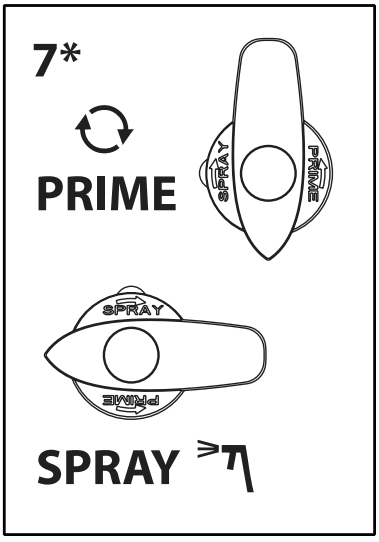
The pressure control knob controls the volume and the operating pressure of the coating material.

3.3 LEGEND FOR EXPLANATORY DIAGRAM PROSPRAY 20

1. Spray gun
2. High-pressure hose
3. Return hose
4. Suction hose
5. Frame
6. Drip cup
7. Relief valve
   Lever position vertical – PRIME (circulation)
   Lever position horizontal – SPRAY ( )
8. Pressure control knob
9. ON/OFF switch
10. Circuit breaker
11. Pressure gauge
12. Oil cup for EasyGlide (EasyGlide prevents increased wear of the packings)

3.4 EXPLANATORY DIAGRAM PROSPRAY 20





3.5 TECHNICAL DATA

Voltage	
	100-110 VAC~, 50/60 Hz or 220-240 VAC~, 50/60 Hz
Max. current consumption	
100-110 VAC~	11.0 A
220-240 VAC~	5.3 A
Power Cord	
	See page 88
Max. operating pressure	
	214 bar (21.4 MPa)
Volume flow at 12 MPa (120 bar) with water	
	1.62 l/min
Max tip size	
	0.021 inch – 0.53 mm
Max. temperature of the coating material	
	43°C
Max viscosity	
	20.000 MPa·s
Weight	
	15.2 kg
Special high-pressure hose	
	6,35 mm, 15 m - 1/4" - 18 NPSM
Dimensions (L X W X H)	
	480 x 360 x 405 mm
Vibration	
	Spray gun does not exceed 2.5m/s²
Max sound pressure level	
	80 dB*

* Place of measurement: 1 m distance from unit and 1.60m above floor, 12 MPa (120 bar) operating pressure, reverberant floor

3.6 TRANSPORTATION IN VEHICLE

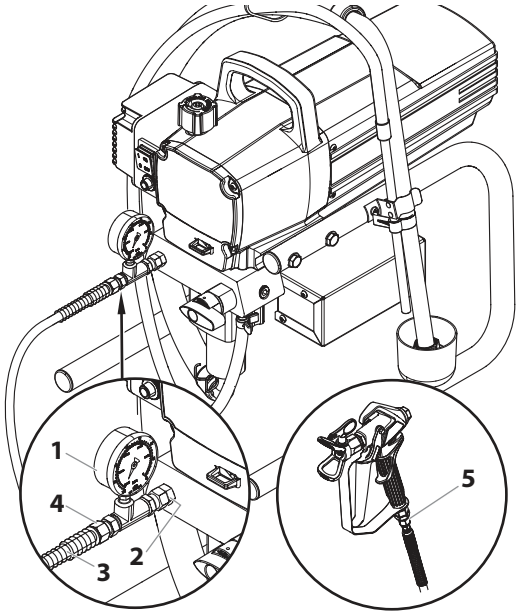
Secure the unit with a suitable fastening.

4 STARTING OPERATION

4.1 HIGH-PRESSURE HOSE, SPRAY GUN AND SEPARATING OIL

1. If equipped, screw the pressure gauge (1) to the coating material outlet (Fig. 2, Item 2).
2. Screw the high-pressure hose (3) to the coating material outlet (Fig. 2, Item 4).
3. Screw the spray gun (5) with the selected tip onto the high-pressure hose.
4. Tighten the union nuts at the high-pressure hoses firmly so that coating material does not leak.

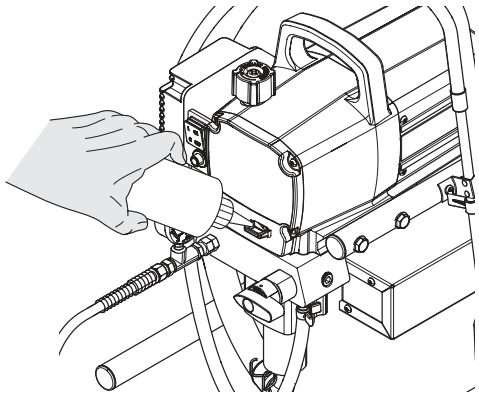
(2)



5. Fill the oil cup with EasyGlide (Fig. 3). Do not use too much EasyGlide, i.e. ensure that no EasyGlide drips into the coating material container.

Attention	EasyGlide prevents increased wear and tear to the packings.

(3)



4.2 CONNECTION TO THE MAINS NETWORK

Attention	The unit must be connected to an appropriately-grounded safety outlet.

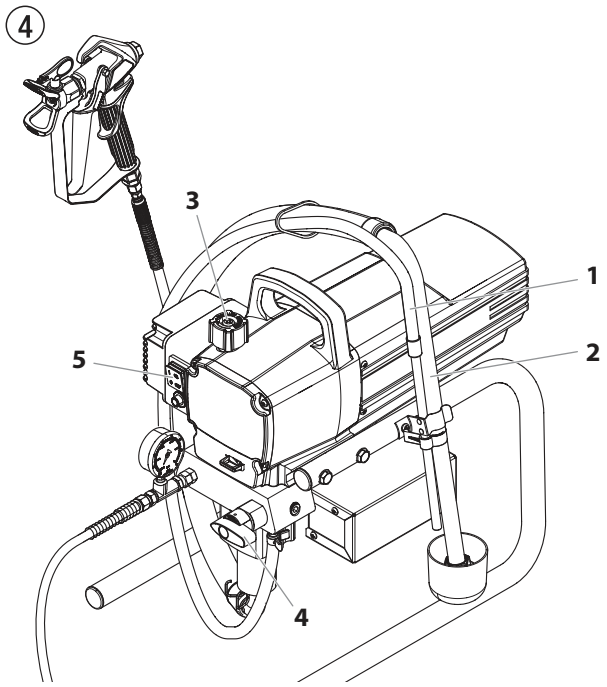
Before connecting the unit to the mains supply, ensure that the line voltage matches that specified on the unit's rating plate.

The connection must be equipped with a residual current protective device with INF ≤ 30 mA.

i	Wagner's accessories program also includes a mobile operator protection device for the electronic supply, which can also be used with other electronic equipment.

4.3 CLEANING PRESERVING AGENT WHEN STARTING-UP OF OPERATION INITIALLY

1. Immerse the suction tube (Fig. 4, Item 2) and return hose (1) into a container with a suitable cleaning agent.
2. Turn the pressure control knob counterclockwise (3) to minimum pressure.
3. Open the relief valve (4), valve position PRIME (↻ circulation).
4. Switch the unit (5) ON.
5. Wait until the cleaning agent exudes from the return hose.
6. Close the relief valve, valve position SPRAY (spray).
7. Pull the trigger of the spray gun.
8. Spray the cleaning agent from the unit into an open collecting container.



4.4 TAKING THE UNIT INTO OPERATION WITH COATING MATERIAL

1. Immerse the suction tube (Fig. 4, Item 2) and return hose (1) into the coating material container.
2. Turn the pressure control knob counterclockwise (3) to minimum pressure.
3. Open the relief valve (4), valve position PRIME (↻ circulation).
4. Switch the unit (5) ON.
5. Wait until the coating material exudes from the return hose.
6. Close the relief valve, valve position SPRAY (spray).
7. Trigger the spray gun several times and spray into a collecting container until the coating material exits the spray gun without interruption.
8. Increase the pressure by slowly turning up the pressure control knob.

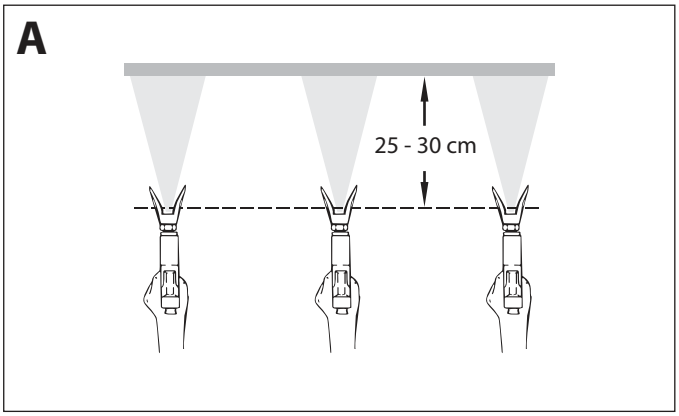
   Check the spray pattern and increase the pressure until the atomization is correct.

   Always turn the pressure control knob to the lowest setting with good atomization.
9. The unit is ready to spray.

5 SPRAYING

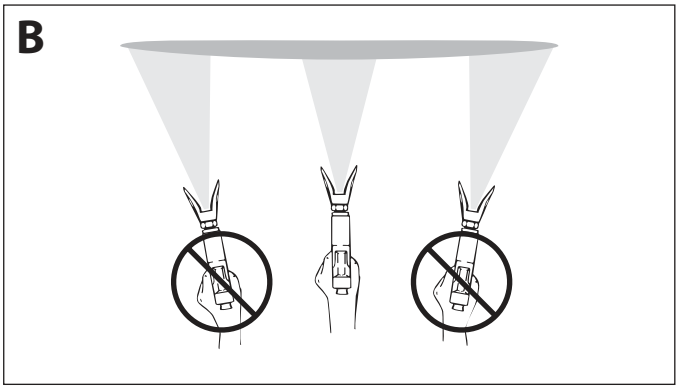
	Injection hazard. Do not spray without the tip guard in place. NEVER trigger the gun unless the tip is completely turned to either the spray or the unclog position. ALWAYS engage the gun trigger lock before removing, replacing or cleaning tip.

A) The key to a good paint job is an even coating over the entire surface. Keep your arm moving at a constant speed and keep the spray gun at a constant distance from the surface. The best spraying distance is 10-12 inches (25 to 30 cm) between the spray tip and the surface.

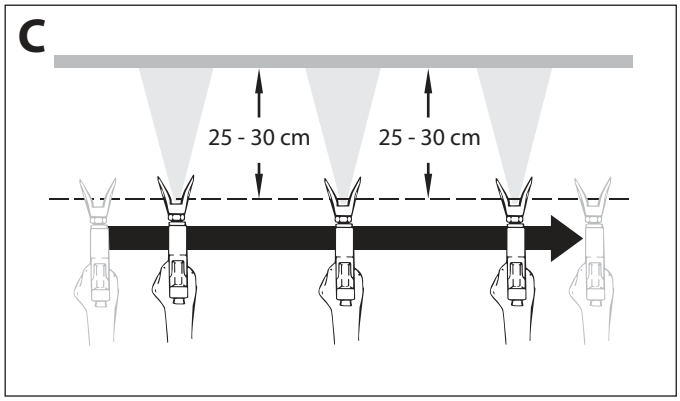


B) Keep the spray gun at right angles to the surface. This means moving your entire arm back and forth rather than just flexing your wrist.

Keep the spray gun perpendicular to the surface, otherwise one end of the pattern will be thicker than the other.



C) Trigger gun after starting the stroke. Release the trigger before ending the stroke. The spray gun should be moving when the trigger is pulled and released. Overlap each stroke by about 30%. This will ensure an even coating.



i	If very sharp edges result or if there are streaks in the spray jet – increase the operating pressure or dilute the coating material.

6 HANDLING THE HIGH-PRESSURE HOSE

	The unit is equipped with a high-pressure hose specially suited for piston pumps.
	Danger of injury through leaking high-pressure hose. Replace any damaged high-pressure hose immediately. Never repair defective high-pressure hoses yourself!

The high-pressure hose is to be handled with care. Avoid sharp bends and folds: the smallest bending radius is about 8" (20 cm).

Do not drive over the high-pressure hose. Protect against sharp objects and edges.

Never pull on the high-pressure hose to move the device.

Make sure that the high-pressure hose cannot twist. This can be avoided by using a Wagner spray gun with a swivel joint and a hose system.

	When using the high-pressure hose while working on scaffolding, it is best to always guide the hose along the outside of the scaffolding.
	The risk of damage rises with the age of the high-pressure hose. Wagner recommends replacing high-pressure hoses after 6 years.
	Use only Wagner original-high-pressure hoses in order to ensure functionality, safety and durability.

7 INTERRUPTION OF WORK

1. Open the relief valve, valve position PRIME (↻ circulation).
2. Switch the unit OFF.
3. Turn the pressure control knob counterclockwise to minimum pressure.
4. Pull the trigger of the spray gun in order to release the pressure from the high-pressure hose and spray gun.
5. Secure the spray gun, refer to the operating manual of the spray gun.
6. If a standard tip is to be cleaned, see Page 23, Section 12.2.

   If a non-standard tip is installed, proceed according to the relevant operating manual.
7. Depending on the model, leave the suction tube or the suction hose and return hose immersed in the coating material or swivel or immerse it into a corresponding cleaning agent.

 **Attention**	If fast-drying or two-component coating material is used, ensure that the unit is rinsed with a suitable cleaning agent within the processing time.

8 CLEANING THE UNIT (SHUTTING DOWN)

i	A clean state is the best method of ensuring operation without problems. After you have finished spraying, clean the unit. Under no circumstances may any remaining coating material dry and harden in the unit.
i	The cleaning agent used for cleaning (only with an ignition point above 38 °C) must be suitable for the coating material used.
i	• **Secure the spray gun**, refer to the operating manual of the spray gun. • Clean and remove tip. • For a standard tip, refer to Page 23, Section 12.2. • If a non-standard tip is installed, proceed according to the relevant operating manual.

1. Remove suction hose from the coating material.
2. Close the relief valve, valve position SPRAY (spray).
3. Switch the unit ON.

Attention	The container must be earthed in case of coating materials which contain solvents.
⚠	Caution! Do not pump or spray into a container with a small opening (bunghole)!

4. Pull the trigger of the spray gun in order to pump the remaining coating material from the suction hose, high-pressure hose and the spray gun into an open container.
5. Immerse suction hose with return hose into a container with a suitable cleaning agent.
6. Turn the pressure control knob counterclockwise to minimum pressure.
7. Open the relief valve, valve position PRIME (circulation).
8. Pump a suitable cleaning agent in the circuit for a few minutes.
9. Close the relief valve, valve position SPRAY (spray).
10. Pull the trigger of the spray gun.
11. Pump the remaining cleaning agent into an open container until the unit is empty.
12. Switch the unit OFF.

8.1 CLEANING UNIT FROM OUTSIDE

⚠	First of all pull out mains plug from socket.
⚠ Attention	Danger of short circuit through penetrating water! Never spray down the unit with high-pressure or high-pressure steam cleaners. Do not put the high-pressure hose into solvents. Use only a wet cloth to wipe down the outside of the hose.

Wipe down unit externally with a cloth which has been immersed in a suitable cleaning agent.

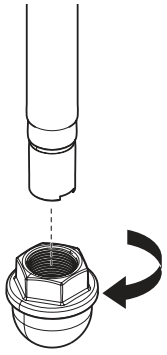
8.2 SUCTION FILTER

i	A clean suction filter always guarantees maximum feed quantity, constant spraying pressure and problem-free functioning of the unit.

1. Screw off the filter (Fig. 5) from suction tube.
2. Clean or replace the filter.

   Carry out cleaning with a hard brush and an appropriate cleaning agent.

(5)



8.3 CLEANING THE HIGH-PRESSURE FILTER

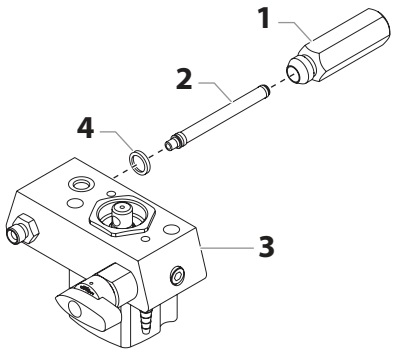
i	Clean the filter cartridge regularly. A soiled or clogged high-pressure filter can cause a poor spray pattern or a clogged tip.

1. Turn the pressure control knob counterclockwise to minimum pressure.
2. Open the relief valve, valve position PRIME (↻ circulation).
3. Switch the unit OFF.

⚠	Unplug the power plug from the outlet.

4. Unscrew the filter housing (Fig. 6, Item 1). with a strap wrench.
5. Pull the filter cartridge (2) from the manifold (3).
6. Clean all the parts with the corresponding cleaning agent. If necessary, replace the filter cartridge.
7. Check the O-ring (4), replace it if necessary.
8. Push the new or cleaned filter into the pump manifold.
9. Screw in filter housing (1) and tighten it as far as possible with the strap wrench.

⑥



8.4 CLEANING AIRLESS SPRAY GUN

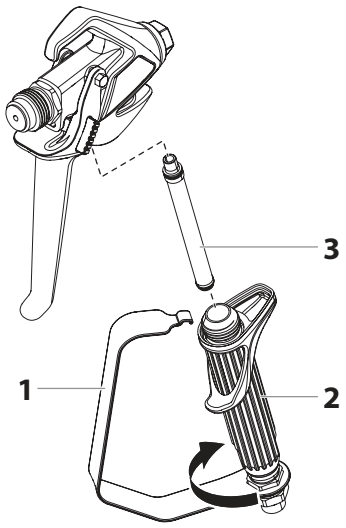
i	Clean the spray gun after each use.

1. Rinse airless spray gun with an appropriate cleaning agent.
2. Clean tip thoroughly with appropriate cleaning agent so that no coating material residue remains.
3. Thoroughly clean the outside of the airless spray gun.

INTAKE FILTER IN AIRLESS SPRAY GUN (FIG. 7)

1. Unclip the top of the trigger guard (1) from the gun head.
2. Using the bottom of the trigger guard as a wrench, loosen and remove the handle assembly (2) from the gun head.
3. Pull the old filter (3) out of the gun head. Clean or replace.
4. Slide the new filter, tapered end first, into the gun head.
5. Thread the handle assembly into the gun head. Tighten with the trigger wrench.
6. Snap the trigger guard back onto the gun head.

⑦



9 REMEDY IN CASE OF FAULTS

Type of malfunction	Possible cause	Measures for eliminating the malfunction
A. Unit does not start	1. No voltage applied. 2. Pressure setting too low. 3. ON/OFF switch defective.	1. Check voltage supply. 2. Turn up pressure control knob. 3. Replace.
B. Unit does not draw in material	1. Relief valve is set to SPRAY (spray). 2. Filter projects over the fluid level and sucks air. 3. Filter clogged. 4. Suction hose/suction tube is loose, i.e. the unit is sucking in outside air.	1. Set relief valve to PRIME (circulation). 2. Refill the coating material. 3. Clean or replace the filter. 4. Clean connecting points. Replace O-rings if necessary. Secure suction hose with retaining clip.
C. Unit draws in material, but the pressure does not build up	1. Tip heavily worn. 2. Tip too large. 3. Pressure setting too low. 4. Filter clogged. 5. Coating material flows through the return hose when the relief valve is in the SPRAY (spray) position. 6. Packings sticky or worn. 7. Valve balls worn. 8. Valve seats worn.	1. Replace 2. Replace tip. 3. Turn pressure control knob clockwise to increase. 4. Clean or replace the filter. 5. Remove and clean or replace relief valve. 6. Remove and clean or replace packings. 7. Remove and replace valve balls. 8. Remove and replace valve seats.
D. Coating material exits at the top of the fluid section	1. Upper packing is worn. 2. Piston is worn.	1. Remove and replace packing. 2. Remove and replace piston.
E. Increased pulsation at the spray gun	1. Incorrect high-pressure hose type. 2. Tip worn or too large. 3. Pressure too high.	1. Only use WAGNER original-high-pressure hoses in order to ensure functionality, safety and durability. 2. Replace tip. 3. Turn pressure control knob to a lower number.
F. Poor spray pattern	1. Tip is too large for the coating material which is to be sprayed. 2. Pressure setting incorrect. 3. Volume too low. 4. Coating material viscosity too high.	1. Replace tip. 2. Turn pressure control knob until a satisfactory spraying pattern is achieved. 3. Clean or replace all filters. 4. Thin out according to the manufacturer's instructions.
G. Unit loses power	1. Pressure setting too low.	1. Turn pressure control knob clockwise to increase.
H. Pump over-pressurizes and will not shut off.	1. Pressure switch defective. 2. Transducer defective.	1. Take unit to a Wagner authorized service center. 2. Take unit to a Wagner authorized service center.

10 SERVICING

10.1 GENERAL SERVICING

Servicing of the unit should be carried out once annually by the WAGNER service.

1. Check high-pressure hoses, device connecting line and plug for damage.
2. Check the inlet valve, outlet valve and filter for wear.

10.2 HIGH-PRESSURE HOSE

Inspect the high-pressure hose visually for any notches or bulges, in particular at the transition in the fittings. It must be possible to turn the union nuts freely.

i	The risk of damage rises with the age of the high-pressure hose. Wagner recommends replacing high-pressure hoses after 6 years.

11 REPAIRS AT THE UNIT

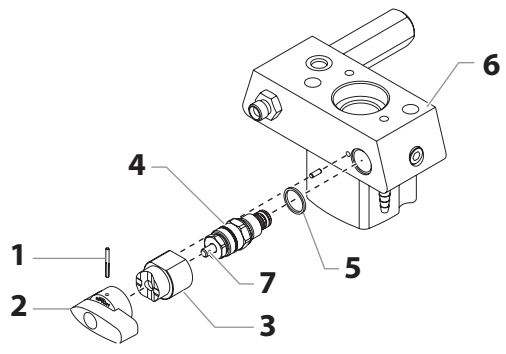
⚠	Switch the unit OFF. Before all repair work: Unplug the power plug from the outlet.
i	Make sure to check for grounding continuity after service is performed on any electrical components. Use an ohmmeter to determine that there is continuity between accessible dead-metal parts of the product and the grounding blade of the attachment plug.

11.1 RELIEF VALVE

⚠ Attention	The valve housing (4) should not be repaired. If worn, it should always be replaced with a new one.

1. Use a drift punch of 2 mm to remove the grooved pin (Fig. 8, Item 1) from the relief valve handle (2).
2. Remove the relief valve handle (2) and cam base (3).
3. Using a wrench, remove the valve housing (4) from the pump manifold (6).
4. Ensure that the seal (5) is seated correctly, then screw the new valve housing (4) completely into the pump manifold (6). Tighten securely with a wrench.
5. Align the cam base (3) with the hole in the pump manifold (6). Lubricate the cam base with grease and slide on the cam base.
6. Bring the hole in the valve shaft (7) and in the relief valve handle (2) into alignment.
7. Insert the grooved pin (1) to secure the relief valve handle in position.

(8)



11.2 INLET AND OUTLET VALVE

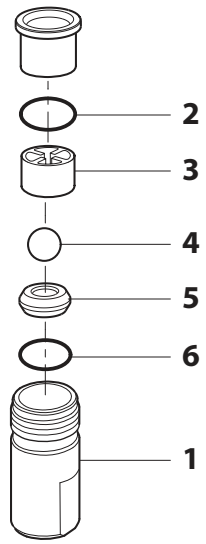
1. Remove the four screws in the front cover and then remove the front cover.
2. Switch the unit ON and then OFF so that the piston rod is positioned in the lower stroke position.

⚠	Danger of crushing - do not reach with the fingers or tool between the moving parts.

3. Unplug the power plug from the outlet.
4. Remove the retaining clip from the connecting bend at the suction hose and pull off the suction hose.
5. Screw off the return hose.
6. Swivel the unit 90° to the rear in order to work more easily on the material feed pump.
7. Unscrew the inlet valve housing (Fig. 10, Item 1) from the pump manifold.
8. Remove the lower seal (2), lower ball guide (3), inlet valve ball (4), inlet valve seat (5) and O-ring (6).
9. Clean all the parts with the corresponding cleaning agent.

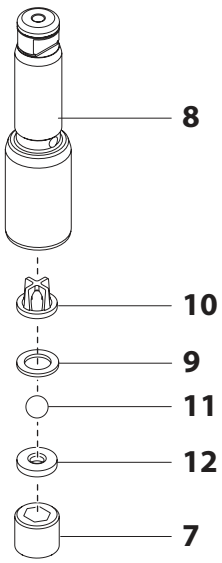
   Check the inlet valve housing (1), inlet valve seat (5) and inlet valve ball (4) for wear and replace the parts if necessary. If the worn inlet valve seat (5) is unused on one side, install it the other way round.

⑩



10. Unscrew outlet valve housing (Fig. 11, Item 7) from the piston (8) with adjusting wrench.
11. Remove the upper ball guide (10), crush washer (9) outlet valve ball (11), and outlet valve seat (12).
12. Clean all the parts with the corresponding cleaning agent. Check outlet valve housing (7), outlet valve seat (12), outlet valve ball (11) and upper ball guide (10) for wear and replace parts if necessary. If the worn outlet valve seat (12) is unused on one side, install it the other way round.
13. Carry out installation in the reverse order. Lubricate O-ring (Fig. 9, Item 6) with machine grease and ensure proper seating in the inlet valve housing (Fig. 10, Item 1).

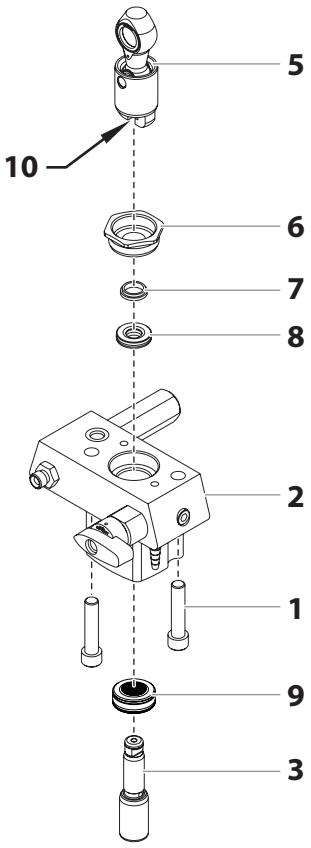
⑪



11.3 PACKINGS

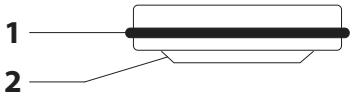
1. Remove inlet valve housing in accordance with the steps in Chapter 11.2.
2. It is not necessary to remove the outlet valve.
3. Unscrew both cylinder head screws (Fig. 12, Item 1) from the pump manifold (2) with a 3/8 inch hexagon socket head wrench.
4. Slide the pump manifold (2) and piston (3) forward until the piston is out of the T-slot (10) on the slider assembly (5).
5. Push piston (3) downward out of the pump manifold (2).
6. Unscrew retainer nut (6) from the pump manifold (2) and remove piston guide (7).
7. Remove upper packing (8) and lower packing (9) from the pump manifold (2).

⑫



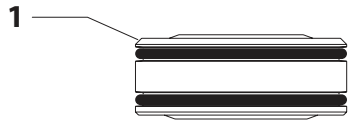
8. Clean pump manifold (2).
9. Lubricate upper packing (8) and lower packing (9) with machine grease.
10. Insert upper packing (Fig. 13) with O-ring (1) and protruding lip (2) downward.

⑬



11. Insert lower packing (Fig. 14) with the beveled edge (1) facing upward.

⑭



12. Insert piston guide (Fig. 12, Item 7) into the retainer nut (6). Screw retainer nut (6) into the pump manifold (2) and tighten by hand.
13. Push installation tool (included with the replacement packings) for the piston (3) from above onto the piston.
14. Lubricate installation tool and piston (3) with machine grease.
15. Guide piston (3) through the lower packings (9) into the pump manifold (2) from below. Using a rubber mallet, lightly tap the piston (3) from below until it can be seen above the pump manifold.
16. Remove installation tool from piston (3).
17. Carefully tighten retainer nut (6) with adjusting wrench.
18. Slide the top of the piston (3) into the T-slot (10) on the slider assembly (4).
19. Position the pump manifold (2) underneath the gear unit housing and push up until it rests against the gear unit housing.
20. Attach pump manifold (2) to the gear unit housing. Ensure that the pressure sensor does not damage the pressure sensor seal (10).
21. Screw pump manifold (2) tightly to gear unit housing.
22. Lubricate O-ring (Fig. 10, Item 6) between pump manifold (2) and inlet valve housing with machine grease. Screw inlet valve housing to the pump manifold.
23. Push connection bend of suction hose into the inlet valve housing (Fig. 10, Item 1) and secure with retaining clip. Screw on return hose and clamp to suction hose.
24. Install front cover.

11.4 REPLACING THE MOTOR

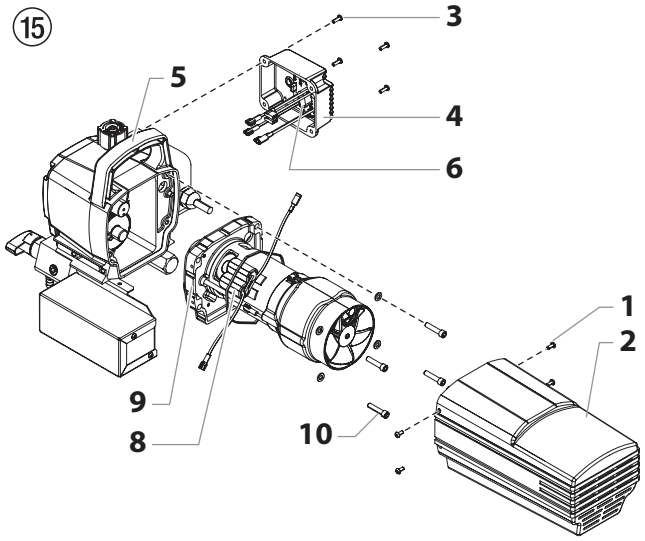
1. Open the relief valve, valve position PRIME (↻ circulation), switch the unit OFF, and unplug the power cord.
2. Remove the four motor cover screws (Fig. 15, Item 1). Remove the motor cover (2).
3. Remove the four heat sink assembly screws (3). Pull the heat sink assembly (4) away from the gear box housing (5).
4. Disconnect the five wires from the relay (6) that is mounted on the inside of the heat sink assembly.
5. Connect the five wires to the relay (refer to the electrical schematic in section 11.8 of this manual).
6. Using the four heat sink assembly screws (3), install the heat sink assembly (4) onto the gear box housing (5). Tighten the screws securely.
7. Disconnect the black and red wires coming from the gear box housing. Disconnect the black and red wires from the capacitors (8). Disconnect the black and red wires from the motor (9).
8. Loosen and remove the four motor mounting screws (10).
9. Pull the motor out of the gear box housing.

i	If the motor will not dislodge from the pump housing: • Remove the front cover plate. • Using a rubber mallet, carefully tap on the front of the motor crankshaft that extends through the slider assembly.

10. With the motor removed, inspect the gears in the gear box housing for damage or excessive wear. Replace the gears, if necessary.
11. Install the new motor into the gear box housing.

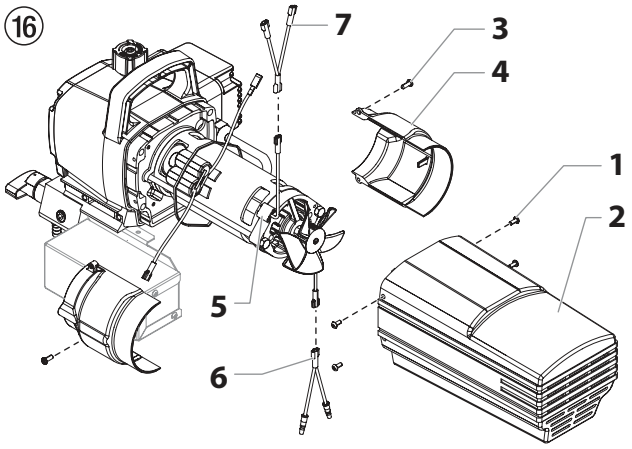
i	Rotate the motor fan manually until the armature gear engages with the mating gear in the gear box housing.

12. Secure the motor (9) with the four motor mounting screws (10).
13. Push the new capacitors into their clip (8) on the new motor.
14. Reconnect the wires (refer to the electrical schematic in the section 11.8 of this manual).
15. Slide the motor cover (2) over the motor. Secure the motor cover with the four motor cover screws (1).



11.5 CARBON BRUSHES IN MOTOR (MOTOR BRUSH KIT P/N 704-276)

1. Remove the four screws (Fig. 16, Item 1) at the motor cover (2). Remove motor cover.
2. Remove the two screws (3) at the shells (4). Remove shells.
3. Lift up both covers (5) with a small screwdriver.
4. Pull red wire (6) and black wire (7) out of the respective carbon brush.
5. Insert new carbon brush and snap cover (5) into place.
6. Insert red wire (6) and black wire (7) onto the respective carbon brush.
7. Screw down both shells (4).
8. Push motor cover (2) over the motor and fasten with the four screws (1).



11.6 REPLACING THE GEARS

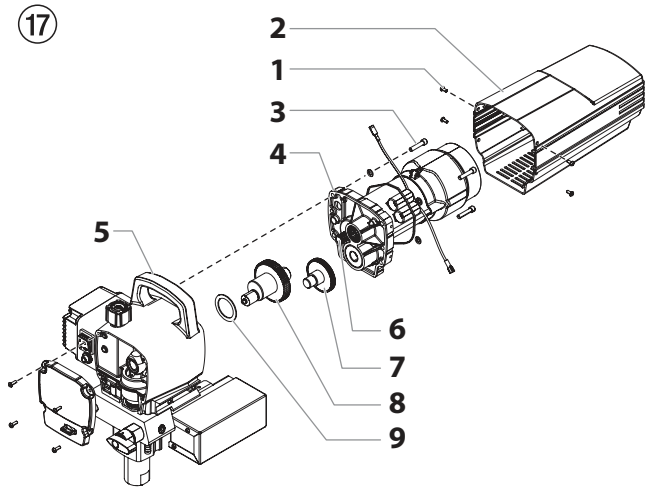
1. Open the relief valve, valve position PRIME (↻ circulation), switch the unit OFF, and unplug the power cord.
2. Loosen and remove the four motor cover screws (Fig. 17. 1). Remove the motor cover (2).
3. Disconnect the black and red wires coming from the gear box housing.
4. Loosen and remove the four motor mounting screws (3).
5. Pull the motor (4) out of the gear box housing (5).

i	If the motor will not dislodge from the pump housing: • Remove the front cover plate. • Using a rubber mallet, carefully tap on the front of the motor crankshaft that extends through the slider assembly.

6. Inspect the armature gear (6) on the end of the motor for damage or excessive wear. If this gear is completely worn out, replace the entire motor.
7. Remove and inspect the 2nd stage gear (7) for damage or excessive wear. Replace if necessary.
8. Remove and inspect the crankshaft/gear assembly (8) for damage or excessive wear. Replace if necessary.
9. Reassemble the pump by reversing the above steps. During reassembly, make sure the thrust washer (9) is in place.

i	Refill the gear box in the pump housing with five ounces of Lubriplate GR132 (P/N 0293396).

⑰

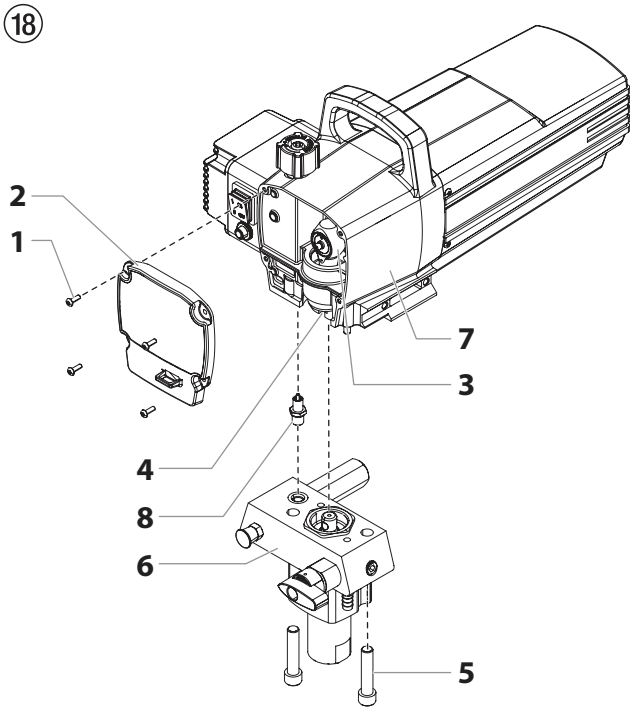


11.7 REPLACING THE TRANSDUCER

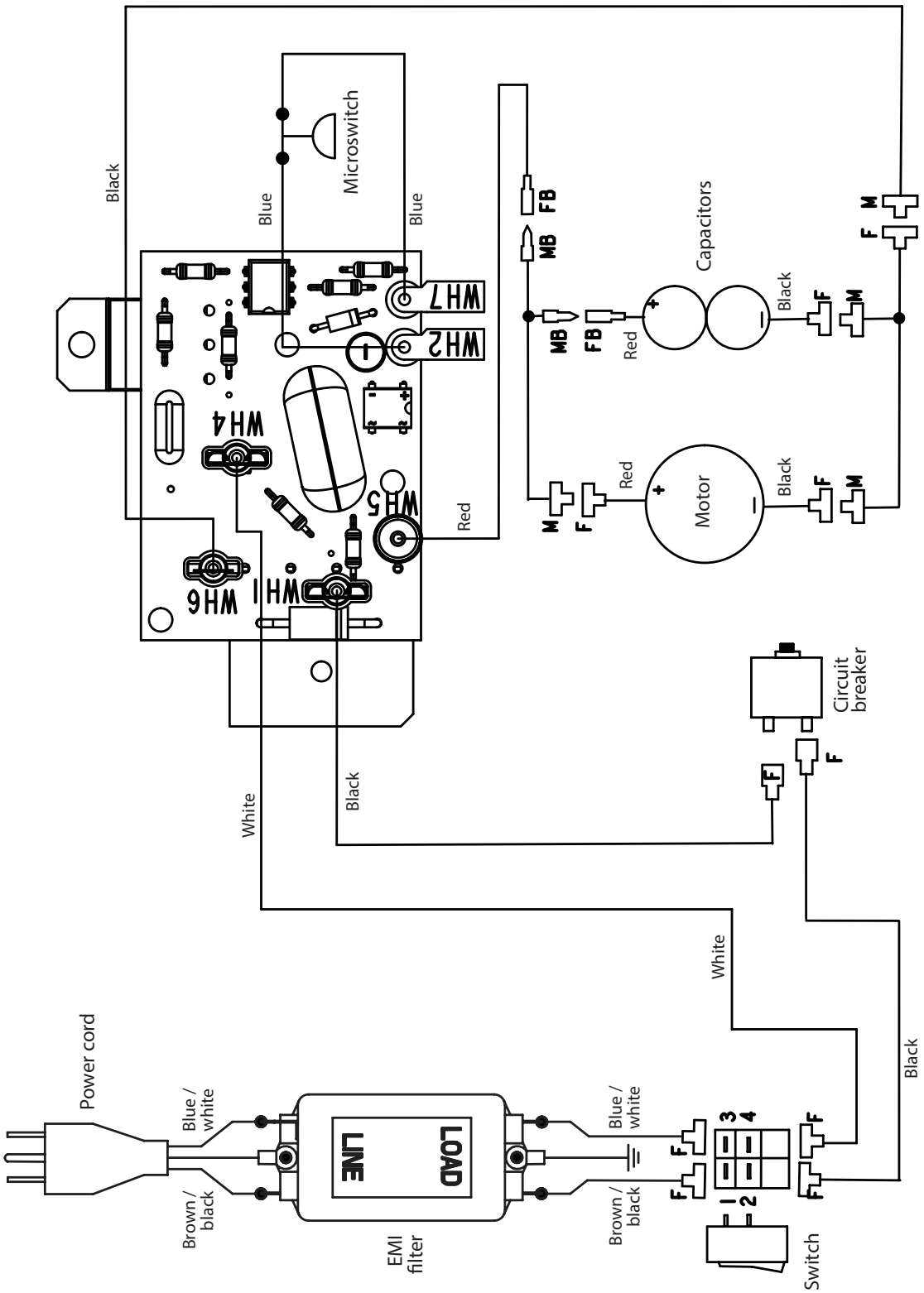
1. Open the relief valve, valve position PRIME (↻ circulation), switch the unit OFF, and unplug the power cord.
2. Loosen and remove the four front cover screws (Fig. 18, Item 1). Remove the front cover (2).
3. Stop the sprayer at the bottom of its stroke so that the piston is in its lowest position.
4. Tilt the sprayer back for easy access to the fluid section.
5. Using 3/8" a hex wrench, loosen and remove the two pump manifold mounting screws (5).
6. Pull the pump manifold (6) down approximately 1.3 cm from the pump housing to clear the transducer.
7. Slide the pump block and piston rod forward until the piston rod is out of the T-slot (4) on the slider assembly (3).
8. Using a wrench, remove the transducer assembly (8) from the pump manifold.
9. Thread the new transducer assembly into the pump manifold (6). Tighten securely with a wrench.
10. Reassemble the pump by reversing steps 2–7.

⚠	Make sure the transducer is aligned properly with the hole in the pump manifold during reassembly. Improper alignment may cause damage to the transducer o-ring.

⑱



11.8 PROSPRAY 20 CONNECTION DIAGRAM



12 APPENDIX

12.1 SELECTION OF TIP

To achieve faultless and rational working, the selection of the tip is of the greatest importance.

In many cases the correct tip can only be determined by means of a spraying test.

SOME RULES FOR THIS:

The spray jet must be even.

If streaks appear in the spray jet the spraying pressure is either too low or the viscosity of the coating material to high.

REMEDY: Increase pressure or dilute coating material. Each pump conveys a certain quantity in proportion to the size of the tip:

The following principle is valid: large tip = low pressure
small tip = high pressure

There is a large range of tips with various spraying angles.

12.2 SERVICING AND CLEANING OF AIRLESS HARD-METAL TIPS

STANDARD TIPS

If a different tip type has been fitted, then clean it according to manufacturer's instructions.

The tip has a bore processed with the greatest precision. Careful handling is necessary to achieve long durability. Do not forget the fact that the hard-metal insert is brittle! Never throw the tip or handle with sharp metal objects.

The following points must be observed to keep the tip clean and ready for use:

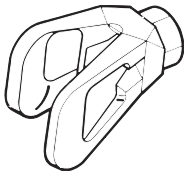
1. Turn the relief valve handle fully counterclockwise (↻ Circulation).
2. Remove the tip from the spray gun.
3. Place tip in an appropriate cleaning agent until all coating material residue is dissolved.
4. If there is high-pressure air available, blow out tip.
5. Remove any residue by means of a sharp wooden rod (toothpick).
6. Check the tip with the help of a magnifying glass and, if necessary, repeat points 3 to 5.

12.3 SPRAY GUN ACCESSORIES

Flat jet adjusting tip
up to 250 bar (25 MPa

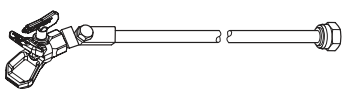
Tip marking	Bore mm	Spray width at about 30 cm removal of spray object Pressure 100 bar (10 MPa)	Use	Flat jet adjusting tip Order No.
15	0.13 - 0.46	5 - 35 cm	Paints	**0999 057**
20	0.18 - 0.48	5 - 50 cm	Paints, fillers	**0999 053**
28	0.28 - 0.66	8 - 55 cm	Paints, dispersions	**0999 054**
41	0.43 - 0.88	10 - 60 cm	Rust protection paints - dispersions	**0999 055**
49	0.53 - 1.37	10 - 40 cm	Large-area coats	**0999 056**

Contact protection
for the flat jet adjustment tip



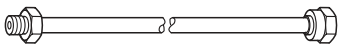
Order No. **0097 294**

Tip extension with slewable knee joint (without tip)



Length: 100 cm Order no. **0096 015**
Length: 200 cm Order no. **0096 016**
Length: 300 cm Order no. **0096 017**

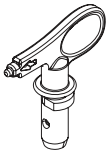
Tip extension



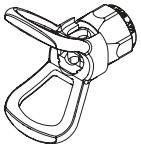
15 cm, F-thread, Order no. **0556 051**
30 cm, F-thread, Order no. **0556 052**
45 cm, F-thread, Order no. **0556 053**
60 cm, F-thread, Order no. **0556 054**

15 cm, G-thread, Order no. **0556 074**
30 cm, G-thread, Order no. **0556 075**
45 cm, G-thread, Order no. **0556 076**
60 cm, G-thread, Order no. **0556 077**

12.4 AIRLESS TIP TABLE



Wagner
TradeTip 3 tip
up to 270 bar
(27 MPa)



without tip
F thread (11/16 - 16 UN)
for Wagner spray guns
Order no. 0289391

without tip
G thread (7/8 - 14 UN)
for Graco/Wagner spray guns
Order no. 0289390

All of the tips in the table below are supplied together with the appropriate gun filter.

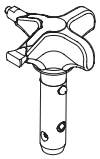
Application	Tip marking	Spray angle	Bore inch / mm	Spraying width mm 1)	Gun filter	Order no.
Water-thinnable and solvent-based paints and varnishes, oils, separating agents	107	10°	0.007 / 0.18	100	red	0553107
	207	20°	0.007 / 0.18	120	red	0553207
	307	30°	0.007 / 0.18	150	red	0553307
	407	40°	0.007 / 0.18	190	red	0553407
	109	10°	0.009 / 0.23	100	red	0553109
	209	20°	0.009 / 0.23	120	red	0553209
	309	30°	0.009 / 0.23	150	red	0553309
	409	40°	0.009 / 0.23	190	red	0553409
	509	50°	0.009 / 0.23	225	red	0553509
	609	60°	0.009 / 0.23	270	red	0553609
Synthetic-resin paints PVC paints	111	10°	0.011 / 0.28	100	red	0553111
	211	20°	0.011 / 0.28	120	red	0553211
	311	30°	0.011 / 0.28	150	red	0553311
	411	40°	0.011 / 0.28	190	red	0553411
	511	50°	0.011 / 0.28	225	red	0553511
	611	60°	0.011 / 0.28	270	red	0553611
Paints, primers Fillers	113	10°	0.013 / 0.33	100	red	0553113
	213	20°	0.013 / 0.33	120	red	0553213
	313	30°	0.013 / 0.33	150	red	0553313
	413	40°	0.013 / 0.33	190	red	0553413
	513	50°	0.013 / 0.33	225	red	0553513
	613	60°	0.013 / 0.33	270	red	0553613
	813	80°	0.013 / 0.33	330	red	0553813
Fillers Rust protection paints	115	10°	0.015 / 0.38	100	yellow	0553115
	215	20°	0.015 / 0.38	120	yellow	0553215
	315	30°	0.015 / 0.38	150	yellow	0553315
	415	40°	0.015 / 0.38	190	yellow	0553415
	515	50°	0.015 / 0.38	225	yellow	0553515
	615	60°	0.015 / 0.38	270	yellow	0553615
	715	70°	0.015 / 0.38	300	yellow	0553715
	815	80°	0.015 / 0.38	330	yellow	0553815
Rust protection paints Latex paints Dispersions	117	10°	0.017 / 0.43	100	white	0553117
	217	20°	0.017 / 0.43	120	white	0553217
	317	30°	0.017 / 0.43	150	white	0553317
	417	40°	0.017 / 0.43	190	white	0553417
	517	50°	0.017 / 0.43	225	white	0553517
	617	60°	0.017 / 0.43	270	white	0553617
	717	70°	0.017 / 0.43	300	white	0553717
	817	80°	0.017 / 0.43	330	white	0553817
Rust protection paints Latex paints Dispersions	219	20°	0.019 / 0.48	120	white	0553219
	319	30°	0.019 / 0.48	150	white	0553319
	419	40°	0.019 / 0.48	190	white	0553419
	519	50°	0.019 / 0.48	225	white	0553519
	619	60°	0.019 / 0.48	270	white	0553619
	719	70°	0.019 / 0.48	300	white	0553719
	819	80°	0.019 / 0.48	330	white	0553819
	919	90°	0.019 / 0.48	385	white	0553919

1)Spray width at about 30 cm to the object and 100 bar (10 MPa) pressure with synthetic-resin paint 20 DIN seconds.

Application	Tip marking	Spray angle	Bore inch / mm	Spraying width mm 1)	Gun filter	Order no.
Flame retardant	221	20°	0.021 / 0.53	120	white	0553221
	321	30°	0.021 / 0.53	150	white	0553321
	421	40°	0.021 / 0.53	190	white	0553421
	521	50°	0.021 / 0.53	225	white	0553521
	621	60°	0.021 / 0.53	270	white	0553621
	721	70°	0.021 / 0.53	300	white	0553721
	821	80°	0.021 / 0.53	330	white	0553821
Roof coatings	223	20°	0.023 / 0.58	120	white	0553223
	323	30°	0.023 / 0.58	150	white	0553323
	423	40°	0.023 / 0.58	190	white	0553423
	523	50°	0.023 / 0.58	225	white	0553523
	623	60°	0.023 / 0.58	270	white	0553623
	723	70°	0.023 / 0.58	300	white	0553723
	823	80°	0.023 / 0.58	330	white	0553823
Thick-film materials, Corrosion protection Spray filler	225	20°	0.025 / 0.64	120	white	0553225
	325	30°	0.025 / 0.64	150	white	0553325
	425	40°	0.025 / 0.64	190	white	0553425
	525	50°	0.025 / 0.64	225	white	0553525
	625	60°	0.025 / 0.64	270	white	0553625
	725	70°	0.025 / 0.64	300	white	0553725
	825	80°	0.025 / 0.64	330	white	0553825
	227	20°	0.027 / 0.69	120	white	0553227
	327	30°	0.027 / 0.69	150	white	0553327
	427	40°	0.027 / 0.69	190	white	0553427
	527	50°	0.027 / 0.69	225	white	0553527
	627	60°	0.027 / 0.69	270	white	0553627
	827	80°	0.027 / 0.69	330	white	0553827
	229	20°	0.029 / 0.75	120	white	0553229
	329	30°	0.029 / 0.75	150	white	0553329
	429	40°	0.029 / 0.75	190	white	0553429
	529	50°	0.029 / 0.75	225	white	0553529
	629	60°	0.029 / 0.75	270	white	0553629
	231	20°	0.031 / 0.79	120	white	0553231
	331	30°	0.031 / 0.79	150	white	0553331
	431	40°	0.031 / 0.79	190	white	0553431
	531	50°	0.031 / 0.79	225	white	0553531
	631	60°	0.031 / 0.79	270	white	0553631
	731	70°	0.031 / 0.79	300	white	0553731
	831	80°	0.031 / 0.79	330	white	0553831
	233	20°	0.033 / 0.83	120	white	0553233
	333	30°	0.033 / 0.83	150	white	0553333
	433	40°	0.033 / 0.83	190	white	0553433
	533	50°	0.033 / 0.83	225	white	0553533
	633	60°	0.033 / 0.83	270	white	0553633
	235	20°	0.035 / 0.90	120	white	0553235
	335	30°	0.035 / 0.90	150	white	0553335
	435	40°	0.035 / 0.90	190	white	0553435
	535	50°	0.035 / 0.90	225	white	0553535
	635	60°	0.035 / 0.90	270	white	0553635
	735	70°	0.035 / 0.90	300	white	0553735
	439	40°	0.039 / 0.99	190	white	0553439
	539	50°	0.039 / 0.99	225	white	0553539
	639	60°	0.039 / 0.99	270	white	0553639
Heavy duty applications	243	20°	0.043 / 1.10	120	green	0553243
	443	40°	0.043 / 1.10	190	green	0553443
	543	50°	0.043 / 1.10	225	green	0553543
	643	60°	0.043 / 1.10	270	green	0553643
	445	40°	0.045 / 1.14	190	green	0553445
	545	50°	0.045 / 1.14	225	green	0553545
	645	60°	0.045 / 1.14	270	green	0553645
	451	40°	0.051 / 1.30	190	green	0553451
	551	50°	0.051 / 1.30	225	green	0553551
	651	60°	0.051 / 1.30	270	green	0553651
	252	20°	0.052 / 1.32	120	green	0553252
	455	40°	0.055 / 1.40	190	green	0553455
	555	50°	0.055 / 1.40	225	green	0553555
	655	60°	0.055 / 1.40	270	green	0553655
	261	20°	0.061 / 1.55	120	green	0553261
	461	40°	0.061 / 1.55	190	green	0553461
	561	50°	0.061 / 1.55	225	green	0553561
	661	60°	0.061 / 1.55	270	green	0553661
	263	20°	0.063 / 1.60	120	green	0553263
	463	40°	0.063 / 1.60	190	green	0553463
	565	50°	0.065 / 1.65	225	green	0553565
	665	60°	0.065 / 1.65	270	green	0553665
	267	20°	0.067 / 1.70	120	green	0553267
	467	40°	0.067 / 1.70	190	green	0553467

1)Spray width at about 30 cm to the object and 100 bar (10 MPa) pressure with synthetic-resin paint 20 DIN seconds.

12.5 2SPEED TIP TABLE



The innovative changeover nozzle from WAGNER combines two nozzle cores into one nozzle.

2 Speed Tip holder
Order no. 0271065

Tip table

Object size	**Painting material**		
	Lacquer (L)	**Emulsion (D)**	**Filler (S)**
Small		D5 Nozzles: 111 / 415 **Order no. 0271 062**	S5 Nozzles: 225 / 629 **Order no. 0271 064**
		D7 Nozzles: 113 / 417 **Order no. 0271 063**	
	L10 Nozzles: 208 / 510 **Order no. 0271 042**	D10 Nozzles: 111 / 419 **Order no. 0271 045**	S10 Nozzles: 527 / 235 **Order no. 0271 049**
Medium	L20 Nozzles: 210 / 512 **Order no. 0271 043**	D20 Nozzles: 115 / 421 **Order no. 0271 046**	S20 Nozzles: 539 / 243 **Order no. 0271 050**
Large	L30 Nozzles: 212 / 514 **Order no. 0271 044**	D30 Nozzles: 115 / 423 **Order no. 0271 047**	S30 Nozzles: 543 / 252 **Order no. 0271 051**
X-Large		D40 Nozzles: 117 / 427 **Order no. 0271 048**	
Recommended gun filter	**red**	**white**	**-**

12.6 NOZZLE CASES

Nozzle cases are a perfect addition to your paint spraying equipment, with everything safely stowed away and with project-specific equipment. Ideally matched to meet your particular application, there are four different versions available.

		Part No.
❶	**Nozzle case HEA ProTip Emulsion**	**2391870**
	• 3x gun filter white, 50 MA, 0.31 mm MW, medium	0034 377
	• 1x gun filter red, 180 MA, 0.084 mm MW, extra fine	0043 235
	• Nozzle extension complete, 15 cm, G-thread	0556 074
	• HEA ProTip 311	0554 311
	• HEA ProTip 421	0554 421
	• HEA ProTip 517	0554 517
	• HEA ProTip 519	0554 519
❷	**Nozzle case TradeTip 3 Lacquer**	**2391871**
	• 3x gun filter red, 180 MA, 0.084 mm MW, extra fine	0034 383
	• Nozzle extension complete, 15 cm, G-thread	0556 074
	• TradeTip 3 FineFinish nozzle 308	0554 308
	• TradeTip 3 FineFinish nozzle 410	0554 410
	• TradeTip 3 FineFinish nozzle 412	0554 412
	• TradeTip 3 FineFinish nozzle 510	0554 510
❸	**Nozzle case 2SpeedTip Emulsion**	**2391872**
	• 3x gun filter white, 50 MA, 0.31 mm MW, medium	0034 377
	• 1x gun filter red, 180 MA, 0.084 mm MW, extra fine	0043 235
	• Nozzle extension complete, 15 cm, G-thread	0556 074
	• HEA ProTip 311	0554 311
	• 2SpeedTip nozzle D10 111/419	0271 045
	• 2SpeedTip nozzle D20 115/421	0271 046
	• 2SpeedTip nozzle D30 115/423	0271 047
❹	**Nozzle case 2SpeedTip Lacquer**	**2391873**
	• 4x gun filter red, 180 MA, 0.084 mm MW, extra fine	0034 383
	• Nozzle extension complete, 15 cm, G-thread	0556 074
	• TradeTip 3 FineFinish nozzle 308	0554 308
	• TradeTip 3 FineFinish nozzle 410	0554 410
	• 2SpeedTip nozzle L20 210/512	0271 043
	• 2SpeedTip nozzle L30 212/514	0271 044

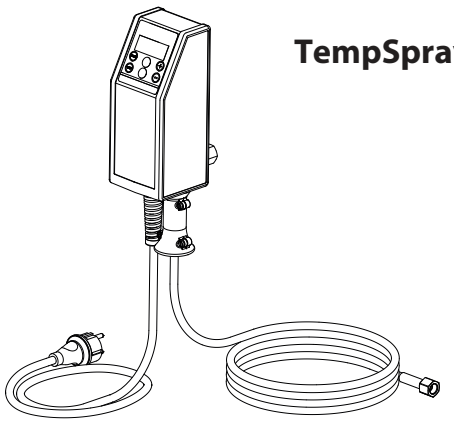
12.7 TEMPSPRAY

The paint material is heated to the required temperature uniformly by an electric heating element, which is located inside the hose (regulated from 20°C to 60°C).

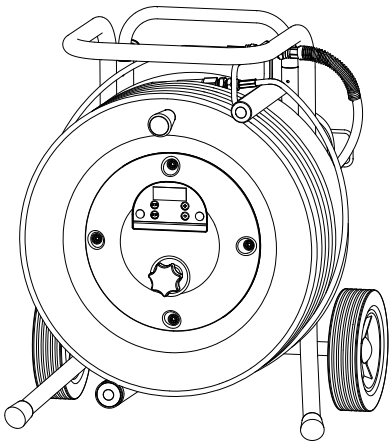
Advantages:

- Constant paint temperature even at low outside temperatures
- Considerably better working of high viscosity coating materials
- Increased application efficiency
- Savings in solvents due to reduction in viscosity
- Adaptable to all airless units

Order No.	Description
	TempSpray H 126 (ideal for lacquer jobs)
2311659	Basic unit 1/4“ incl. stainless steel hose, DN6, 1/4“, 10m
2311852	Spraypack consisting of: basic unit (2311659), Airless gun Vector Grip G-thread incl. Trade Tip 3 nozzle holder and 2SpeedTip L10 (208/510)
	TempSpray H 226 (ideal for dispersions/materials with high viscosity)
2311660	Basic unit 1/4“ incl. Hose reel, heated hose DN10, 15m, hose 1/4“ DN4, 1m
2311853	Spraypack consisting of: basic unit (2311660), Airless gun Vector Grip G-thread incl. Trade Tip 3 nozzle holder and 2SpeedTip D10 (111/419)
	TempSpray H 326 (ideal for dispersions/materials with high viscosity)
2311661	Basic unit 1/4“ incl. Hose reel, heated hose DN10, 30m, hose 1/4“ DN4, 1m
2311854	Spraypack consisting of: basic unit (2311661), Airless gun Vector Grip G-thread incl. Trade Tip 3 nozzle holder and 2SpeedTip D20 (115/421)



TempSpray H 126

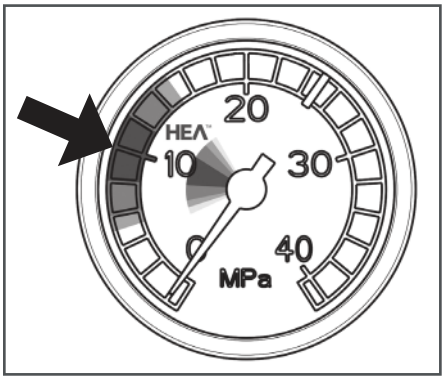


TempSpray H 226
TempSpray H 326

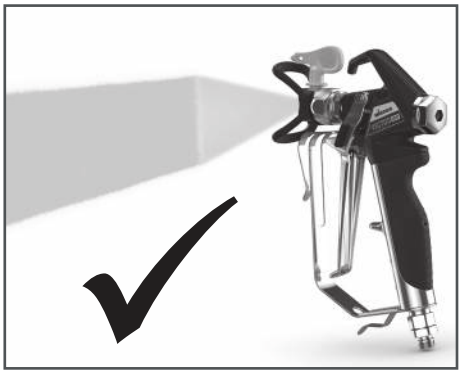
12.8 HEA NOZZLES FOR LOW-MIST SPRAYING AT LOW PRESSURE

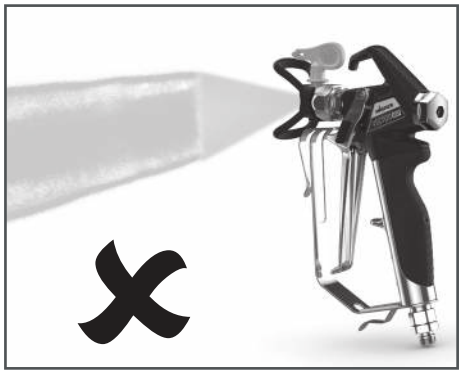
HEA stands for High Efficiency Airless, an innovative nozzle technology revolutionising airless spraying. HEA nozzles allow the pressure of the spray device to be reduced right down and allow it to work in the low-pressure range (ideally at 80 - 140 bar). The nozzles can be used with all TradeTip 3 nozzle holders and WAGNER devices.

Some paints may need to be diluted to achieve the best result possible. The experts at Wagner application technology have therefore tested a wide range of materials for you. Their recommendations can be found in the Wagner Spray Guide at sprayguide.wagner-group.com.



Set the low pressure in the HEA range and start.


Even spray pattern without spray edges.


If edges are visible, slowly increase the pressure.

HEA tip table

All of the tips in the table below are supplied together with the appropriate gun filter.

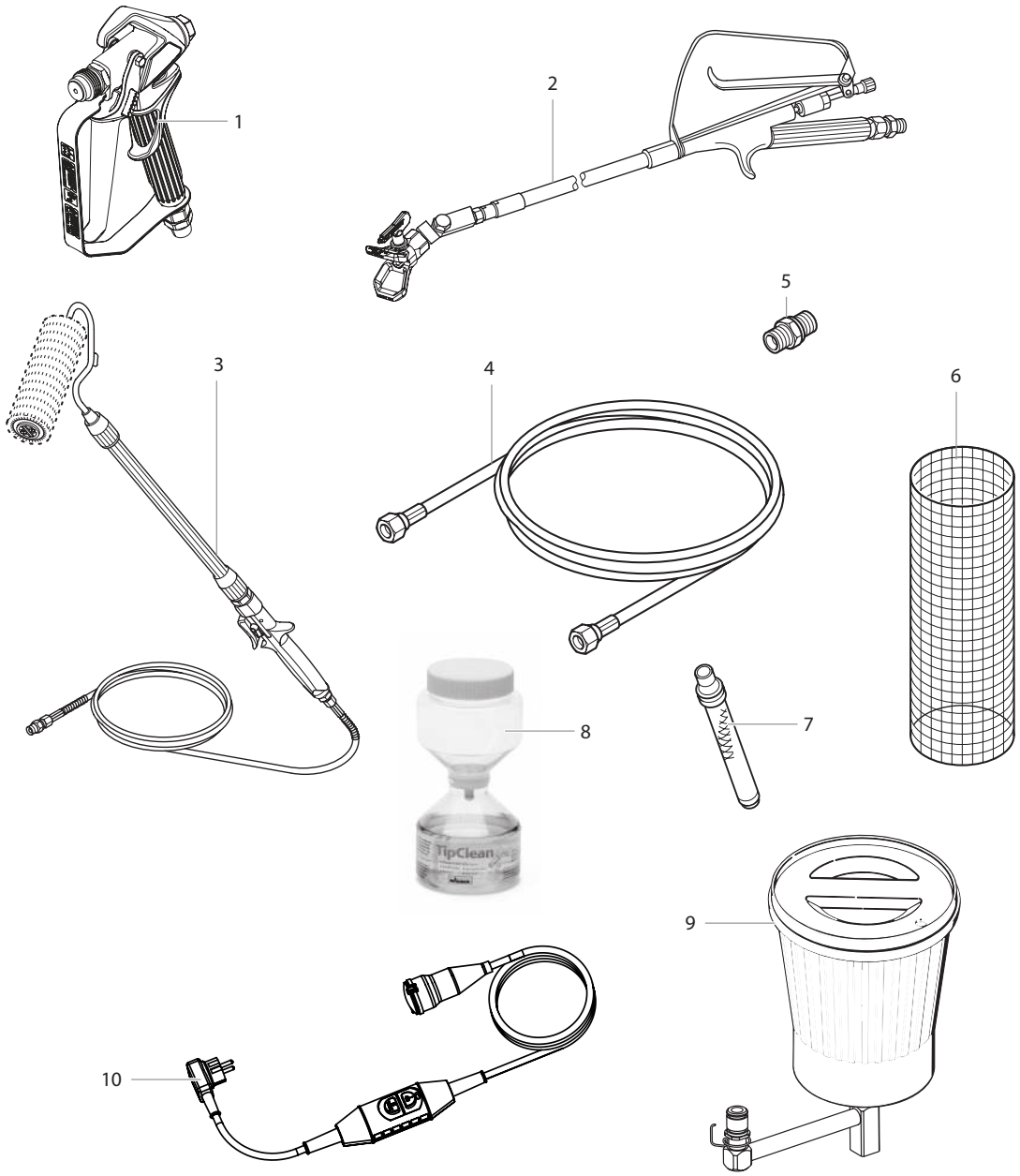
Application	Tip marking	Spray angle	Bore inch / mm	Spraying width mm 1)	Gun filter	Order no.
Synthetic-resin paints **PVC paints**	211 311 411	20° 30° 40°	0.011 / 0.28 0.011 / 0.28 0.011 / 0.28	120 150 190	red red Rot	0554211 0554311 0554411
Paints, primers **Fillers**	213 313 413	20° 30° 40°	0.013 / 0.33 0.013 / 0.33 0.013 / 0.33	120 150 190	red red red	0554213 0554313 0554413
Fillers **Rust protection paints**	415 515 615	40° 50° 60°	0.015 / 0.38 0.015 / 0.38 0.015 / 0.38	190 225 270	yellow yellow yellow	0554415 0554515 0554615
Rust protection paints **Latex paints** **Dispersions**	417 517 617	40° 50° 60°	0.017 / 0.43 0.017 / 0.43 0.017 / 0.43	190 225 270	white white white	0554417 0554517 0554617
Rust protection paints **Latex paints** **Dispersions**	519 619	50° 60°	0.019 / 0.48 0.019 / 0.48	225 270	white white	0554519 0554619
Flame retardant	421 521 621	40° 50° 60°	0.021 / 0.53 0.021 / 0.53 0.021 / 0.53	190 225 270	white white white	0554421 0554521 0554621

1) Spray width at about 30 cm to the object and 100 bar (10 MPa) pressure with synthetic-resin paint 20 DIN seconds.

GB ACCESSORIES DIAGRAM

P DIAGRAMA DAS ACESSÓRIOS

E CUADRO DE ACCESORIOS

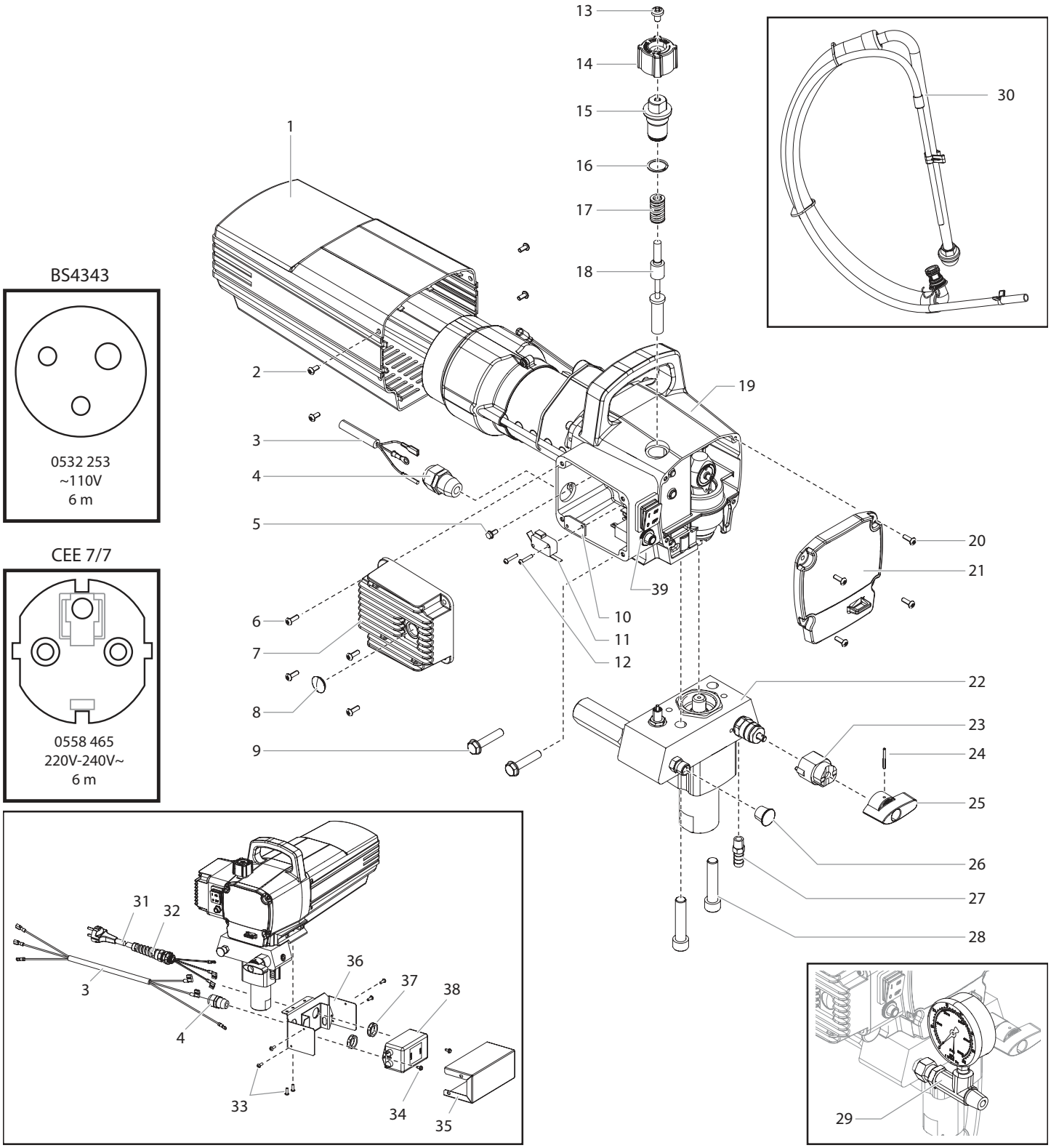


#	PS 20	Description	Denominación	Descrição
1	0538 041	Spray gun, Vector Pro 2-finger	Pistola de pulverización Vector Pro 2 dedos	Pistola de pulverização Vector Pro 2 dedos
	0538 040	Spray gun, Vector Pro 4-finger	Pistola de pulverización Vector Pro 4 dedos	Pistola de pulverização Vector Pro 4 dedos
	0538 042	Spray gun, Vector Grip 2-finger	Pistola de pulverización Vector Grip 2 dedos	Pistola de pulverização Vector Grip 2 dedos
	0538 043	Spray gun, Vector Grip 4-finger	Pistola de pulverización Vector Grip 4 dedos	Pistola de pulverização Vector Grip 4 dedos
2	0296 441	Pole gun 120 cm, G-thread 7/8″	Pistola con alargadera 120 cm, rosca G, 7/8″	Pistola com vara 120 cm, rosca G 7/8″
	0296 443	Pole gun 120 cm, F-thread 11/16″	Pistola con alargadera 120 cm, rosca F, 11/16″	Pistola com vara 120 cm, rosca F 11/16″
	0296 442	Pole gun 200 cm, G-thread 7/8″	Pistola con alargadera 200 cm, rosca G, 7/8″	Pistola com vara 200 cm, rosca G 7/8″
	0296 444	Pole gun 200 cm, F-thread 11/16″	Pistola con alargadera 200 cm, rosca F, 11/16″	Pistola com vara 200 cm, rosca F 11/16″
3	0345 010	In-line roller IR-100	Rodillo In-line IR-100	Rolo In-line IR-100
4	9984 573	High-pressure hose DN 4 mm, 7.5 m with stainless steel nipple, 1/4″	Manguera de alta presión DN 4 mm, 7,5 m con racor de acero inoxidable, 1/4″	Tubo flexível de alta pressão DN 4 mm, 7,5 m com bocal de aço inoxidável, 1/4″
	9984 574	High-pressure hose DN 6 mm, 15 m for dispersion, 1/4″	Manguera de alta presión DN 6 mm, 15 m para pinturas de dispersión, 1/4″	Tubo flexível de alta pressão DN 6 mm, 15 m para dispersão, 1/4″
	9984 575	High-pressure hose DN 6 mm, 30 m for dispersion, 1/4″	Manguera de alta presión DN 6 mm, 30 m para pinturas de dispersión, 1/4″	Tubo flexível de alta pressão DN 6 mm, 30 m para dispersão, 1/4″
5	0034 038	Double socket for coupling high-pressure hoses (1/4″ x 1/4″)	Pieza de unión para acoplamiento de mangueras de alta presión (1/4″ x 1/4″)	Junção dupla para acoplar tubos flexíveis de alta pressão (1/4″ x 1/4″)
6	0034 950	Metex-Reuse Reuse for pre-filtering of coating material in vessel. Place suction pipe in the reuse.	Metex-Reuse Reuse para el filtrado previo del material de recubrimiento en el envase. Poner el tubo de aspiración directamente el Reuse.	Metex-Reuse Reuse para a pré-filtração do material de revestimento num repiciente. Colocar o tubo de sucção no Reuse.
	0034 952	Sieve package (5 pcs) for paint	Paquete de tamices (5 piezas) para laca	Embalagem de tamis (5 peças) para tinta
	0034 951	Sieve package (5 pcs) for dispersion	Paquete de tamices (5 piezas) para pinturas de dispersión	Embalagem de tamis (5 peças) para dispersão
7	0034 383	Gun filter, red, 1 piece; 180 mesh extra fine	Filtro de pistola, rojo, 1 unidad, malla 180 extra fine	Filtro da pistola, vermelho, 1 peça; Malha 180 extra fina
	0097 022	Gun filter, red, 10 pieces; 180 mesh extra fine	Filtro de pistola, rojo, 10 unidades, malla 180 extra fine	Filtro da pistola, vermelho, 10 peças; Malha 180 extra fina
	0043 235	Gun filter, yellow, 1 piece; 100 mesh fine	Filtro de pistola, amarillo, 1 unidad, malla 100 fine	Filtro da pistola, amarelo, 1 peça; Malha 100 fina
	0097 023	Gun filter, yellow, 10 pieces; 100 mesh fine	Filtro de pistola, amarillo, 10 unidades, malla 100 fine	Filtro da pistola, amarelo, 10 peças; Malha 100 fina
	0034 377	Gun filter, white, 1 piece; 50 mesh medium	Filtro de pistola, blanco, 1 unidad, malla 50 medium	Filtro da pistola, branco, 1 peça; Malha 50 média
	0097 024	Gun filter, white, 10 pieces; 50 mesh medium	Filtro de pistola, blanco, 10 unidades, malla 50 medium	Filtro da pistola, branco, 10 peças; Malha 50 média
	0089 323	Gun filter, green, 1 piece; 30 mesh coarse	Filtro de pistola, verde, 1 unidad, malla 30 coarse	Filtro da pistola, verde, 1 peça; Malha 30 grossa
	0097 025	Gun filter, green, 10 pieces; 30 mesh coarse	Filtro de pistola, verde, 10 unidades, malla 30 coarse	Filtro da pistola, verde, 10 peças; Malha 30 grossa
8	0097 108	TipClean Cleaning Set for easy cleaning and conservation of nozzles	Kit de limpieza TipClean para limpieza fácil y conservación de boquillas	Conjunto de Limpeza TipClean para uma limpeza fácil e conservação das boquilhas
	0508 619	EasyGlide, special oil (118ml)	EasyGlide, aceite especial (118ml)	EasyGlide, óleo especial (118 ml)
	0508 620	EasyClean, cleaning and conservation agent (118 ml)	EasyClean, agente de conservación y limpieza (118 ml)	EasyClean, agente de limpeza e conservação (118 ml)
9	0551 969	Hopper kit	Conjunto de la tolva	Conjunto do funil de carga
10	2312 909	Personel protection switch (PRCD) 230V / 16A (3 m)	Interruptor de protección personal (fusible FI) 230V / 16A	Interruptor de protecção pessoal (PRCD) 230V / 16A (3 m)

GB MAIN ASSEMBLY

P CONJUNTO PRINCIPAL

E CONJUNTO PRINCIPAL

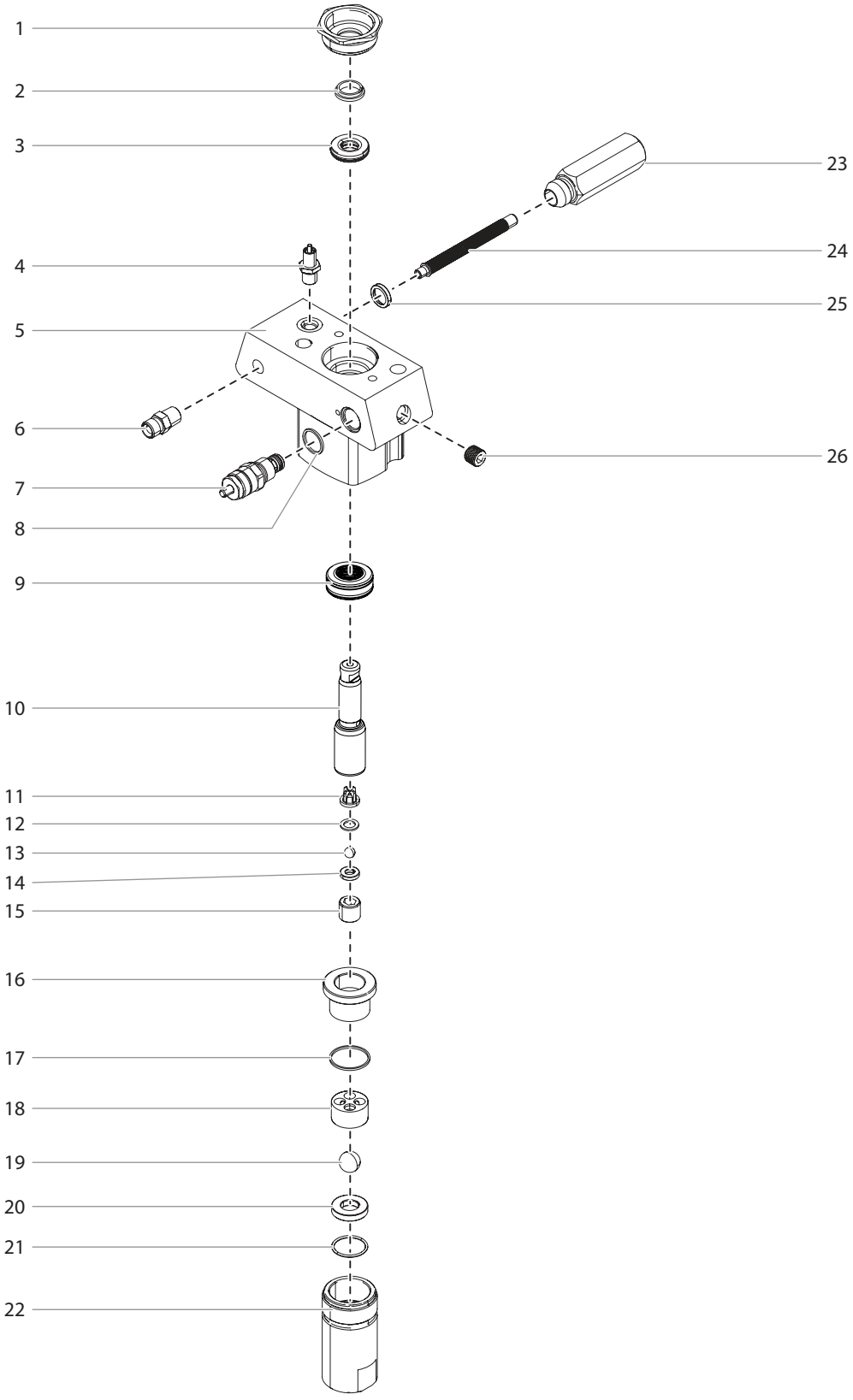


#	PS 20	Description	Denominación	Descrição
1	0552 300	Motor shroud	Cubremotor	Cobertura do motor
2	9805 287	Screw (4)	Tornillo (4)	Parafuso (4)
3	0558 555	Power cord jumper	Cable de conexión	Cabo de alimentação
4	0551 714	Cord grip (2)	Pinza de contacto (2)	Fixador do cabo (2)
5	9800 340	Ground screw	Tierra el tornillo	Parafuso de ligação à terra
6	0509 218	Screw (4)	Tornillo (4)	Parafuso (4)
7	0522 143A	Motor control assembly	Tapa del disipador de calor	Cobertura do dissipador de calor
8	0507 751	Grommit	Clavija	Tampão da entrada
9	0509 550	Screw (4)	Tornillo (4)	Parafuso (4)
10	03662	Microswitch insulator	Aislante de micro-interruptor	Isolador do microinterruptor
11	0522 633	Microswitch	Micro-interruptor	Microinterruptor
12	9800 604	Screw (2)	Tornillo (2)	Parafuso (2)
13	0509 219	Screw	Tornillo	Parafuso
14	0551 513	Knob	Mando regulador de presión	Botão regulador da pressão
15	0551 522	Knob housing	Caja de perilla	Corpo do botão
16	9822 522	Retaining ring	Anillo de fijación	Anel de retenção
17	02712	Spring	Resorte	Mola do botão
18	0551 521	Plunger	Contacto de presión	Êmbolo
19	-------	Drive assembly	Conjunto del macanismo impulsor	Unidade de comando
20	0509 218	Screw (4)	Tornillo (4)	Parafuso (4)
21	0551 518	Face plate	Tapa frontal	Tampa frontal
22	0558 263A	Fluid section assembly	Conjunto de la zona de pintura	Secção de fluido
23	0507 931	Cam base	Base de la leva	Base de came
24	5006 543	Groove pin	Pasador de ranura	Pino entalhado
25	0507 662	Relief valve knob	Manilla de la válvula	Manípulo da válvula
26	730-197	Cap	Tapón	Tampão
27	193-200	Return tube fitting	Acople del tubo de retorno	Conexão do tubo de retorno
28	0508 553	Screw (2)	Tornillo (2)	Parafuso (2)
29	0508 239	Manometer	Manómetro	Manómetro
30	0558 672A	Siphon assembly	Sistema de aspiración	Sistema de sucção
31	--------	Power cord	Cable de conexión	Cabo de alimentação
32	275703	Cord grip	Pinza de contacto	Fixador do cabo
33	0509 218	Screw (4)	Tornillo (4)	Parafuso (4)
34	9800 340	Ground screw (2)	Tierra el tornillo (2)	Parafuso de ligação à terra (2)
35	0558 452	Bracket cover	Cubierta del soporte	Tampa do suporte de montagem
36	0558 449	Bracket	Soporte	Suporte de montagem
37	0551 980	Lock nut (2)	Contratuerca (2)	Contraporca (2)
38	0522 424	EMI filter, 20A	Filtro EMI, 20A	Filtro EMI, 20A
39	2406054	Washer, nylon	Arandela, nylon	Arruela, nylon

GB FLUID SECTION

P SECÇÃO DE FLUIDO

E ZONA DE PINTURA

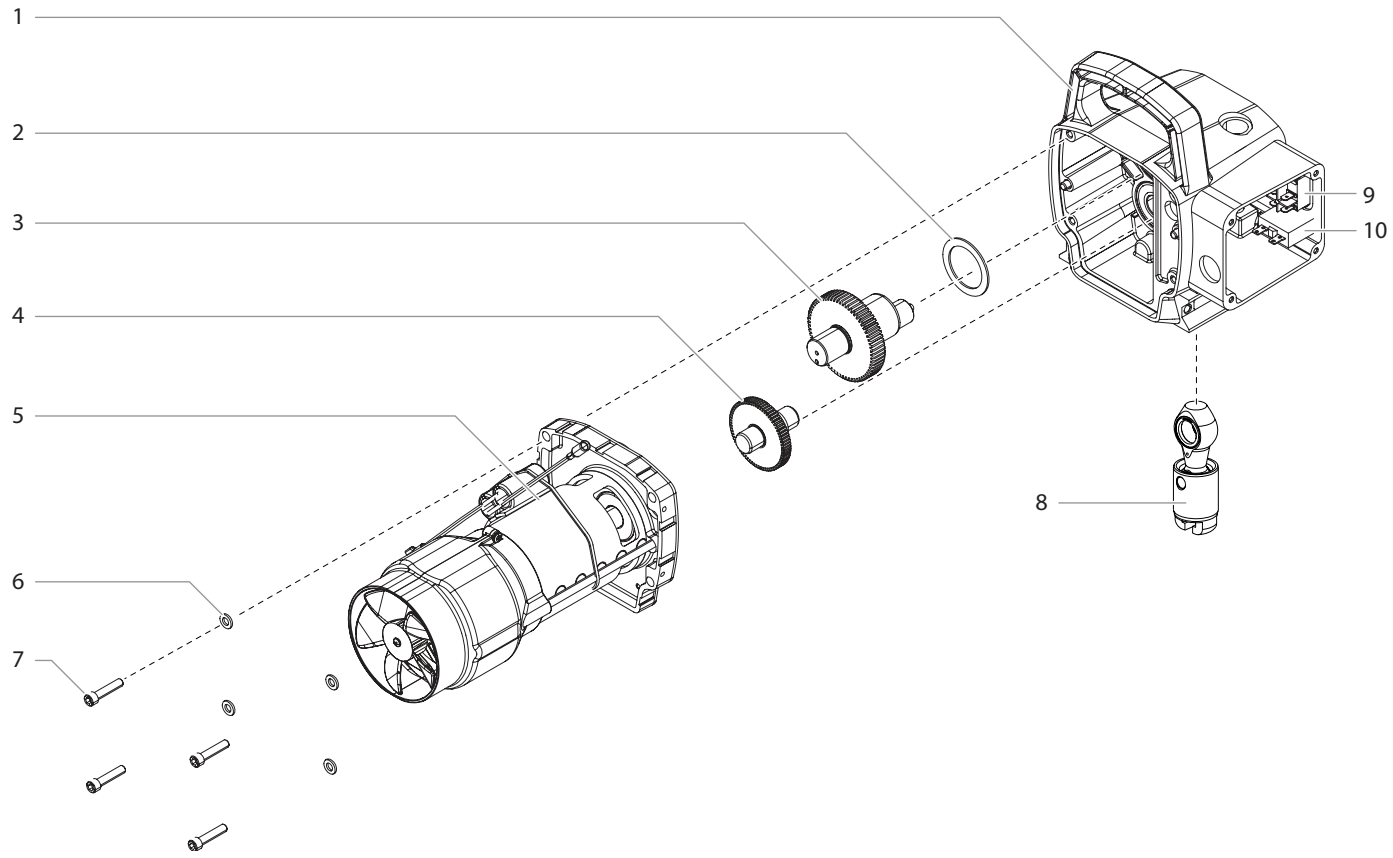


#	PS 20	Description	Denominación	Descrição
1	0509 594	Retainer	Tuerca guía	Porca de fixação
2	0509 584	Piston guide	Guía de pistón	Guia do pistão
3	-------	Upper packing	Empaquetadura superior	Empanque superior
4	0551 112	Transducer assembly	Impulsor manométrico	Conjunto do transdutor
5	806-106	Pump manifold	Caja de escala cromática	Colector da bomba
6	0509 873	Fitting	Pieza de unión	Junção dupla
7	0507 690	Bypass valve assembly	Conjunto de válvula de derivación	Conjunto da válvula de desvio
8	0507 745	Gasket	Empaquetadura	Junta
9	-------	Lower packing	Empaquetadura inferior	Empanque inferior
10	0290 277A	Piston rod	Pistón	Pistão
11	704-610	Upper cage	Guía de bola superior	Guia de esfera superior
12	0551 263	Crush washer	Arandela	Arruela
13	0516 303	Outlet valve ball	Bola de válvula de escape	Esfera da válvula de escape
14	0551 620	Outlet valve seat	Encaje de válvula de escape	Sede da válvula de escape
15	13481	Outlet valve retainer	Caja de válvula de escape	Corpo da válvula de escape
16	0509590	Bushing	Manguito	Bucha
17	0509 581	Inlet valve seal	Junta inferior	Vedação inferior
18	0509 591	Lower ball guide	Guía de bola inferior	Guia de esfera inferior
19	0509 583	Inlet valve ball	Bola de válvula de admisión	Esfera da válvula de admissão
20	0551 534	Inlet valve seat	Encaje de válvula de admisión	Sede da válvula de admissão
21	0509 582	O-ring, PTFE	Anillo tórico, PTFE	Anel em O, PTFE
22	0508 680	Inlet valve housing	Caja de válvula de admisión	Corpo da válvula de admissão
23	0516 775	Filter housing	Caja de filtro	Corpo da filtro
24	0515 252	Filter	Filtro	Filtro
25	0296 289	O-ring	Anillo tórico	Anel em O
26	0507 517	Pipe plug	Tapón de la tubería	Tampão do tubo
	0509 151	Piston assembly (includes items 10-15)	Conjunto de pistón (incluye los elementos 10 a 15)	Conjunto do pistão (inclui os itens 10-15)
	0551 533	Repacking kit (includes items 2-3, 9, 11, 13, 17, 19 and 21).	Juego para volver a colocar la empaquetadura (incluye los elementos 2 a 3, 9, 11, 13, 17, 19 y 21).	Kit de novos empanques (inclui os itens 2-3, 9, 11, 13, 17, 19 e 21).

GB DRIVE ASSEMBLY

P UNIDADE DE COMANDO

E CONJUNTO DEL MECANISMO IMPULSOR

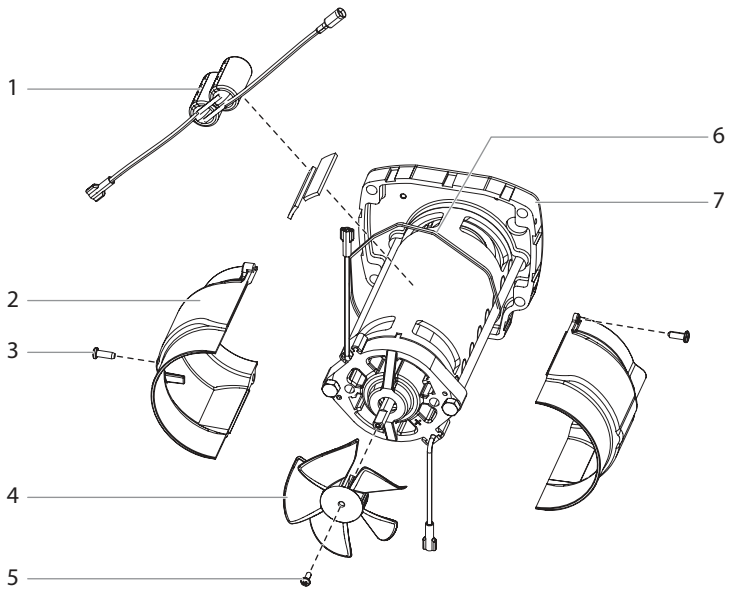


#	PS 20	Description	Denominación	Descrição
1	806-100A	Housing assembly (includes item 9)	Conjunto de carcasa (incluye le elemento 9)	Conjunto do alojamento (inclui os itens 9)
2	0508 573	Thrust washer	Arandela de entrada	Arruela de encosto
3	0508 572A	Gear/crankshaft assembly	Eje de cigüeñal	Conjunto de engrenagem/eixo de manivela
4	0509 121	2nd stage gear	Rueda de engranaje, grado 2	Engrenagem de segundo andar
5	0558 314A	Motor assembly, 220-240V~	Conjunto del motor, 220-240V~	Conjunto do motor, 220-240V~
	0558 353A	Motor assembly, 100-110V~	Conjunto del motor, 100-110V~	Conjunto do motor, 100-110V~
6	9820 213	Washer (4)	Arandela (4)	Arruela (4)
7	9800 341	Screw (4)	Tornillo (4)	Parafuso (4)
8	0508 208	Slider assembly	Conjunto deslizante	Conjunto do mecanismo deslizante
9	9850 936	Switch	Interruptor	Interruptor
10	0551 991	Circuit breaker, 220-240V~	Disjuntor, 220-240V~	Disjuntor, 220-240V~
	704-211A	Circuit breaker, 100-110V~	Disjuntor, 100-110V~	Disjuntor, 100-110V~

GB MOTOR ASSEMBLY

P UNIDADE DE MOTOR

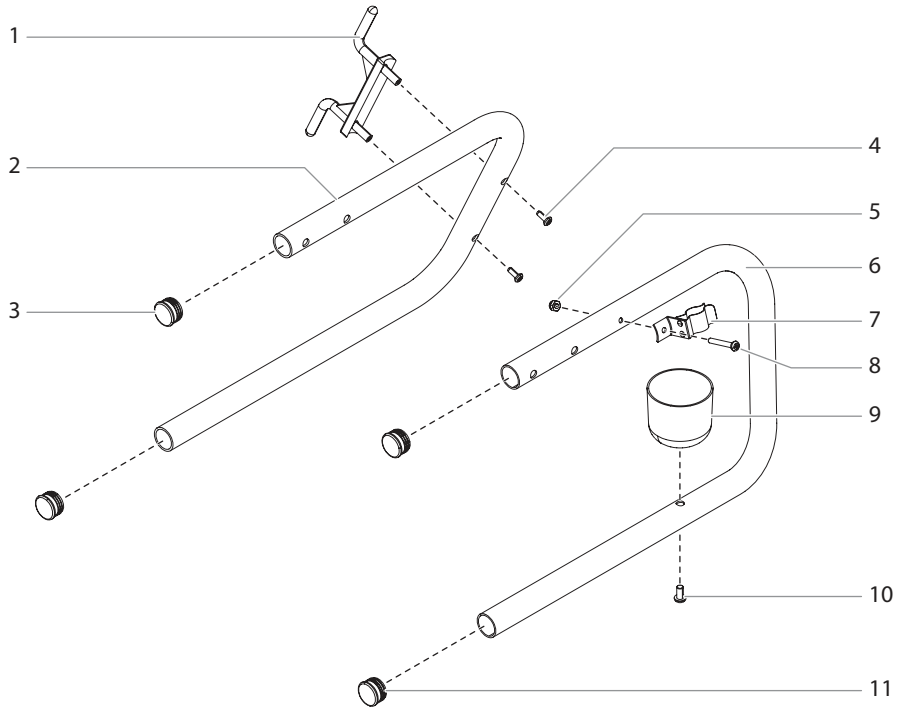
E CONJUNTO DEL MOTOR



#	PS 20	Description	Denominación	Descrição
1	0551 967	Capacitor assembly, 220-240V~	Condensadores, 220-240V~	Condensador, 220-240V~
	0522 100	Capacitor assembly, 100-110V~	Condensadores, 100-110V~	Condensador, 100-110V~
2	806-304	Fan shroud (2)	Cubierta de ventilador (2)	Cobertura do ventilador (2)
3	704-322	Screw (2)	Tornillo (2)	Parafuso (2)
4	806-308	Fan	Ventilador	Ventoinha
5	9804 916	Screw	Tornillo	Parafuso
6	0551 543	Tie wrap	Amarre del cable	Braçadeira
7	0551 174A	Motor, 220-240V~	Motor, 220-240V~	Motor, 220-240V~
	0551 540	Motor, 100-110V~	Motor, 100-110V~	Motor, 100-110V~
	704-276	Motor brush kit	Juego de escobillas de carbón	Kit de escovas do motor

GB STAND ASSEMBLY **E BASTIDOR-SOPORTE**

P ESTRUTURA

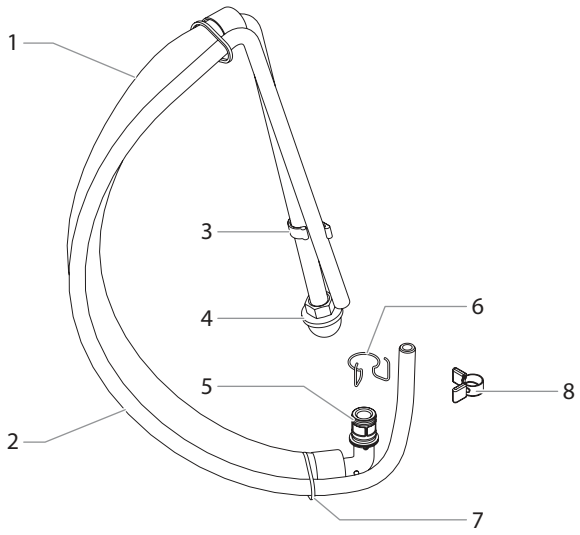


#	PS 20	Description	Denominación	Descrição
1	0508 377	Cord holder	Soporte de cable de red	Suporte do cabo
2	806-071	Leg, left	Arco a la izquierda	Apoio esquerdo
3	9885 546	Plug (2)	Tapón de cierre (2)	Tampão (2)
4	0551 527	Screw	Tornillo	Parafuso
5	0509 856	Nut	Tuerca	Porca
6	0290 234	Leg, right	Arco a la derecha	Apoio direito
7	806-216	Tube clip	Grapa	Grampo
8	0551 434	Screw	Tornillo	Parafuso
9	0508 381	Drip cup	Recipiente de limpieza	Recipiente de gotejamento
10	9805 230	Screw	Tornillo	Parafuso
11	9885 546	Plug (2)	Tapón de cierre (2)	Tampão (2)
	0551 526	Left leg assembly (includes items 1-4)	Arco a la izquierda (Pos. 1-4)	Apoio esquerdo (item 1-4)
	0551 524	Right leg assembly (includes items 5-11)	Arco a la derecha (Pos. 5-11)	Apoio direito (item 5-11)

GB SUCTION SYSTEM

P SISTEMA DE SUCÇÃO

E SISTEMA DE ASPIRACIÓN



#	PS 20	Description	Denominación	Descrição
1	0558672A	Siphon tube assembly (includes items 1-8)	Sistema de aspiración (Pos. 1-8)	Sistema de sucção (Pos. 1-8)
2	0558659A	Return tube	Manguera de retorno	Tubo de retorno
3	0279459	Clip	Grapa	Grampo
4	700-805	Inlet screen	Filtro	Filtro
5	9871105	O-ring (2)	Anillo tórico (2)	Anel em O (2)
	704-109	O-ring (for hot solvents, optional) (2)	O-ring (para solventes calientes, opcional) (2)	Joint torique (para solventes quentes, opcional) (2)
6	9822526	Retaining clip	Grapa	Grampo
7	9850638	Tie wrap	Amarre del cable	Braçadeira
8	0327226	Return tube clamp	Grapa del tubo de retorno	Grampo do tubo de retorno

IMPORTANT NOTES ON PRODUCT LIABILITY

As a result of an EC regulation being effective as from January 1, 1990, the manufacturer shall only be liable for his product if all parts come from him or are released by him, and if the devices are properly mounted and operated.

If the user applies outside accessories and spare parts, the manufacturer´s liability can fully or partially be inapplicable; in extreme cases usage of the entire device can be prohibited by the competent authorities (employer´s liability insurance association and factory inspectorate division).

Only the usage of original WAGNER accessories and spare parts guarantees that all safety regulations are observed.

3+2 YEARS GUARANTEE FOR PROFESSIONAL FINISHING

Wagner professional guarantee

(Status 01.02.2009)

1. Scope of guarantee

All Wagner professional colour application devices (hereafter referred to as products) are carefully inspected, tested and are subject to strict checks under Wagner quality assurance. Wagner exclusively issues extended guarantees to commercial or professional users (hereafter referred to as "customer") who have purchased the product in an authorised specialist shop, and which relate to the products listed for that customer on the Internet under www.wagner-group.com/profi-guarantee.

The buyer's claim for liability for defects from the purchase agreement with the seller as well as statutory rights are not impaired by this guarantee.

We provide a guarantee in that we decide whether to replace or repair the product or individual parts, or take the device back and reimburse the purchase price. The costs for materials and working hours are our responsibility. Replaced products or parts become our property.

2. Guarantee period and registration

The guarantee period amounts to 36 months. For industrial use or equal wear, such as shift operations in particular, or in the event of rentals it amounts to 12 months.

Systems driven by petrol or air are also guaranteed for a 12 month period.

The guarantee period begins with the day of delivery by the authorised specialist shop. The date on the original purchase document is authoritative.

For all products bought in authorised specialist shops from 01.02.2009 the guarantee period is extended to 24 months providing the buyer of these devices registers in accordance with the following conditions within 4 weeks of the day of delivery by the authorised specialist shop.

Registration can be completed on the Internet under www.wagner-group.com/profi-guarantee. The guarantee certificate is valid as confirmation, as is the original purchase document that carries the date of the purchase. Registration is only possible if the buyer is in agreement with having the data being stored that is entered during registration.

When services are carried out under guarantee the guarantee period for the product is neither extended nor renewed.

Once the guarantee period has expired, claims made against the guarantee or from the guarantee can no longer be enforced.

3. Handling

If defects can be seen in the materials, processing or performance of the device during the guarantee period, guarantee claims must be made immediately, or at the latest within a period of 2 weeks.

The authorised specialist shop that delivered the device is entitled to accept guarantee claims. Guarantee claims may also be made to the service centres named in our operating instructions. The product has to be sent without charge or presented together with the original purchase document that includes details of the purchase date and the name of the product. In order to claim for an extension to the guarantee, the guarantee certificate must be included.

The costs as well as the risk of loss or damage to the product in transit or by the centre that accepts the guarantee claims or who delivers the repaired product, are the responsibility of the customer.

4. Exclusion of guarantee

Guarantee claims cannot be considered

- for parts that are subject to wear and tear due to use or other natural wear and tear, as well as defects in the product that are a result of natural wear and tear, or wear and tear due to use. This includes in particular cables, valves, packaging, jets, cylinders, pistons, means-carrying housing components, filters, pipes, seals, rotors, stators, etc. Damage due to wear and tear that is caused in particular by sanded coating materials, such as dispersions, plaster, putty, adhesives, glazes, quartz foundation.
- in the event of errors in devices that are due to non-compliance with the operating instructions, unsuitable or unprofessional use, incorrect assembly and/or commissioning by the buyer or by a third party, or utilisation other than is intended, abnormal ambient conditions, unsuitable coating materials, unsuitable operating conditions, operation with the incorrect mains voltage supply/frequency, over-operation or defective servicing or care and/or cleaning.
- for errors in the device that have been caused by using accessory parts, additional components or spare parts that are not original Wagner parts.
- for products to which modifications or additions have been carried out.
- for products where the serial number has been removed or is illegible
- for products to which attempts at repairs have been carried out by unauthorised persons.
- for products with slight deviations from the target properties, which are negligible with regard to the value and usability of the device.
- for products that have been partially or fully taken apart.

5. Additional regulations.

The above guarantees apply exclusively to products that have been bought by authorised specialist shops in the EU, CIS, Australia and are used within the reference country.

If the check shows that the case is not a guarantee case, repairs are carried out at the expense of the buyer.

The above regulations manage the legal relationship to us concludingly. Additional claims, in particular for damages and losses of any type, which occur as a result of the product or its use, are excluded from the product liability act except with regard to the area of application.

Claims for liability for defects to the specialist trader remain unaffected.

German law applies to this guarantee. The contractual language is German. In the event that the meaning of the German and a foreign text of this guarantee deviate from one another, the meaning of the German text has priority.

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(14 Cent/Minute aus dem deutschen Festnetz, Mobilfunk max. 42 Cent/Min)

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