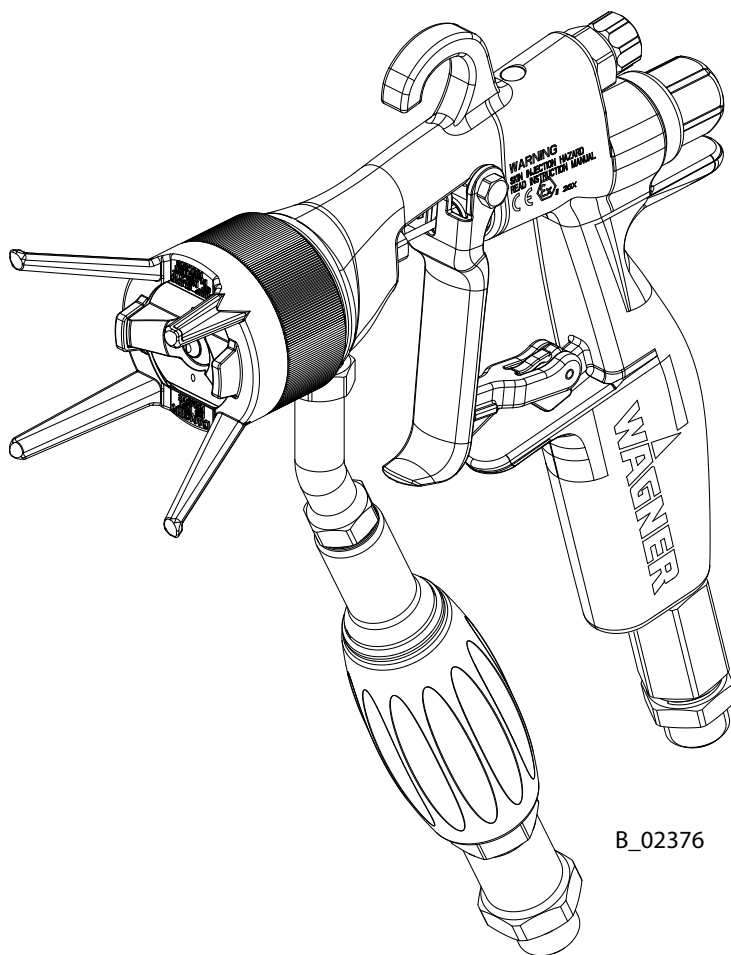


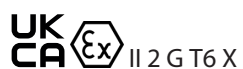


B_02376

AirCoat manual gun

GM 4700AC / GM 4700AC-H

Original Operating Manual



For professional use.
Always observe the information in this manual, particularly the safety
instructions and the warning instructions. Store the manual in a safe place.

Edition: 02/2025

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1 ABOUT THESE INSTRUCTIONS

1.1 PREFACE

The operating manual contains information about safely operating, maintaining, cleaning and repairing the device. The operating manual is part of the device and must be available to the operating and service personnel.

The device may only be operated by trained personnel and in compliance with this operating manual. Operating and service personnel should be instructed according to the safety instructions.

This equipment can be dangerous if it is not operated according to the instructions in this operating manual.

1.2 WARNINGS, NOTICES AND SYMBOLS IN THESE INSTRUCTIONS

Warning instructions in this manual highlight particular dangers to users and to the device and state measures for avoiding the hazard.

These warning instructions fall into the following categories:

	DANGER	Immediate risk of danger. Non-observance will result in death or serious injury.
	WARNING	Potential danger. Non-observance may result in death or serious injury.
	CAUTION	Potentially dangerous situation. Non-observance may result in minor injury.
	NOTICE	Potentially dangerous situation. Non-observance may result in damage to property.
	Info	Provides information about particular characteristics and how to proceed.

Explanation of warning notice:

WARNING

This notice warns you of a danger!

Possible consequences of not observing the warning notice.

- ▶ The measures for preventing the hazard and its consequences.



1.3 LANGUAGES

The operating manual is available in the following languages:

Original operating manual

Language	Order no.
English	2439563

Additional languages upon request or at: www.wagner-group.com

1.4 ABBREVIATIONS

Order no.	Order number
ET	Spare part
K	Marking in the spare parts lists
Pos	Position

Stk	Number of pieces
SW	Wrench size
LV	Low viscosity
HV	High viscosity
LA	Low Air
GM	Manual gun
AC	AirCoat
H	Processing heated product (hot)
2K	Two components
DN	Nominal diameter

1.5 TERMINOLOGY FOR THE PURPOSE OF THIS MANUAL

Cleaning

Cleaning	Manual cleaning of devices and device parts with cleaning agent.
Flushing	Internal flushing of paint-wetted parts with flushing agent.
Product pressure generator	Pump or pressure tank.

Personnel qualifications

Trained person	Is instructed in the tasks assigned to him/her, the potential risks associated with improper behavior as well as the necessary protective devices and measures.
Electrically trained person	Is instructed by an electrician about the tasks assigned to him/her, the potential risks associated with improper behavior as well as the necessary protective devices and measures.
Electrician	Can assess the work assigned to him/her and detect possible hazards based on his/her technical training, knowledge and experience in relevant provisions.
Skilled person	A person, who, based on his/her technical training, experience and recent vocational experience, has sufficient technical knowledge in the areas of explosion protection, protection from pressure hazards and electric hazards (if applicable) and is familiar with the relevant and generally accepted rules of technology so that he/she can inspect and assess the status of devices and coating systems based on workplace safety.

2 USING IN ACCORDANCE WITH THE INSTRUCTIONS

2.1 DEVICE TYPE

Manual gun for manually coating work pieces:

GM 4700AC

GM 4700AC-H

2.2 TYPE OF USE

The automatic spray gun is suitable for atomizing liquid products, particularly coating products, using the AirCoat process.

- Non-ignitable products.
- Ignitable products in accordance with their classification in explosion class IIB.

WAGNER explicitly prohibits any other use!

The device may only be operated under the following conditions:

- ▶ Use the device only to work with the materials recommended by WAGNER.
- ▶ Do not deactivate safety fixtures.
- ▶ Use only WAGNER original spare parts and accessories.
- ▶ The operating personnel must be trained on the basis of this operating manual.
- ▶ Follow the instructions in the operating manual.

2.3 FOR USE IN POTENTIALLY EXPLOSIVE AREAS

The device is suitable for use in potentially explosive areas as defined by UK statutory requirement SI 2016 No. 1107, (see Explosion protection Identification [▶▶ 9]).



2.4 PROCESSIBLE WORKING MATERIALS

Top-coat lacquers, primer paints, corrosion protection, textured lacquers, lyes, staining solvents, clear lacquers, separating agents, etc. with a solvent or water base. If you want to spray working materials other than the aforementioned, contact a WAGNER representative.

Info

Contact your local WAGNER dealer and the lacquer manufacturer if you encounter application problems.



2.5 MISUSE

Misuse can lead to physical injury and/or property damage! Special attention must be paid that:

- ▶ No dry coating products, e.g., powder are processed.
- ▶ No food, medicine or cosmetics are processed. It is important to note that the device's materials are not food-safe.

3 IDENTIFICATION

3.1 EXPLOSION PROTECTION IDENTIFICATION

The device is suitable for use in potentially explosive areas as defined by UK statutory requirement SI 2016 No. 1107.

Device type	AirCoat manual gun GM 4700AC
Manufacturer	Wagner International AG 9450 Altstätten Switzerland

**UK
CA**



UKCA	UKCA-mark (UK Conformity Assessed)
Ex	Symbol for explosion protection
II	Device class II
2	Category 2 (zone 1)
G	Ex-atmosphere gas
T6	Temperature class T6 < 85°C
X	Special notice



3.2 IDENTIFICATION "X"

The maximum surface temperature corresponds to the permissible product temperature. This and the permissible ambient temperature can be found in Chapter Technical data [►► 17].

Safe handling of WAGNER spray devices

Mechanical sparks can form if the device comes into contact with metal. In an explosive atmosphere:

- ▶ Knocking or pushing metal against metal is to be avoided.
- ▶ Do not drop the device.

Ignition temperature of the coating product

- ▶ Ensure that the ignition temperature of the coating product is above the maximum surface temperature.

Medium supporting atomizing

- ▶ To atomize the product, use only weakly oxidizing gases, e.g., air.

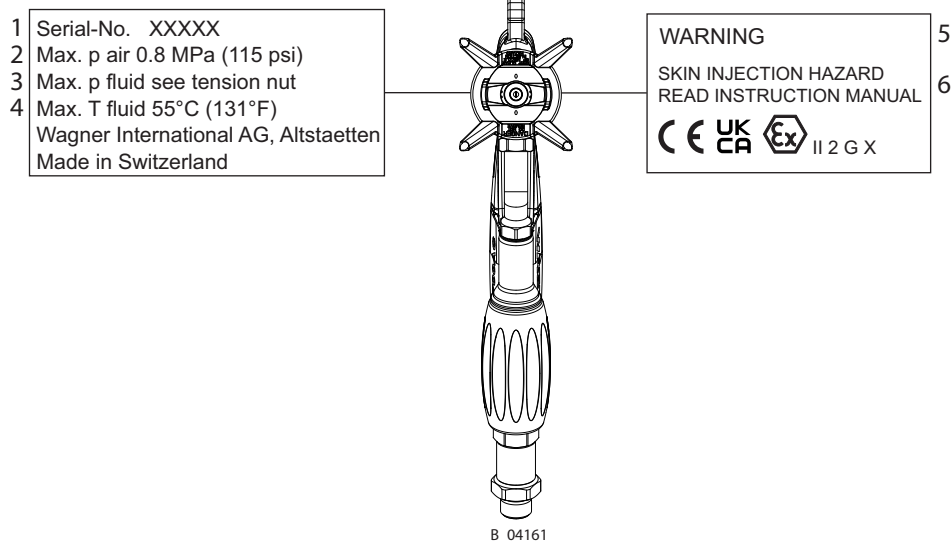
Cleaning

If there are deposits on the surfaces, the device may form electrostatic charges. Flames or sparks can form during discharge.

1. Remove deposits from the surfaces to maintain conductivity.
2. Use only a damp cloth to clean the device.



3.3 TYPE PLATE



Pos	Designation
1	Serial number
2	Maximum air inlet pressure
3	Maximum product pressure see spring cap
4	Maximum product temperature (GM 4700AC = 55 °C; GM 4700AC-H = 80 °C - see chapter Technical data [►► 17])
5	Warning
6	Danger of injury from injection/read operating manual

4 BASIC SAFETY INSTRUCTIONS

4.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

- ▶ Keep this operating manual at hand near the device at all times.
- ▶ Always follow statutory provisions concerning occupational safety and accident prevention regulations.



4.2 A SAFE WORK ENVIRONMENT

Danger due to dangerous fluids or vapors!

Severe or fatal injuries due to explosion danger or inhalation, swallowing or contact with the skin or eyes.

- ▶ Ensure that the floor in the working area is static dissipative in accordance with BS EN 1081:2018+A1:2020 or BS EN 61340-4-1:2004+A1:2015 (resistance must not exceed 100 MΩ).
- ▶ Paint mist extraction systems/ventilation systems must be fitted on site according to local regulations.
- ▶ Make sure that the ground connection and potential equalization of all system parts are reliable and continuous and can withstand the expected stress (e.g., mechanical stress, corrosion).
- ▶ Ensure that product hoses/air hoses adapted to the working pressure are used.
- ▶ Ensure that personal protective equipment is available and is used.
- ▶ Make sure that all people within the work area wear static dissipative shoes. The footwear must correspond to BS EN ISO 20344:2011. The measured insulation resistance must not exceed 100 MΩ.
- ▶ Ensure that during spraying, persons wear static dissipative gloves. The grounding takes place via the spray gun's handle or its trigger.
- ▶ Protective clothing including gloves, must correspond to BS EN 1149-5:2018. The measured insulation resistance must not exceed 100 MΩ.
- ▶ Ensure that there are no ignition sources such as naked flames, sparks, glowing wires, or hot surfaces in the vicinity. Do not smoke.
- ▶ Ensure that the pipe joints, hoses, equipment parts and connections are permanently, technically leak-proof:
 - ▶ Periodic preventative maintenance and service (replacing hoses, checking tightness strength of connections, etc.)
 - ▶ Regular monitoring of leaks and defects via visual inspection and odor testing, e.g., daily before commissioning, at the end of work or weekly.
- ▶ Ensure that maintenance and safety checks are performed regularly.
- ▶ In the event of defects, immediately bring the device or system to a stop and arrange to have repairs carried out immediately.



4.3 PERSONNEL QUALIFICATIONS

Danger due to incorrect use of device!

Risk of death due to untrained personnel.

- ▶ Ensure that the operating personnel has been instructed by the operator in accordance with the operating manual and the operating instructions. The device must only be operated, maintained and repaired by trained personnel. Refer to the operating instructions for information about the required personnel qualifications.

4.4 SAFETY INSTRUCTIONS FOR THE PERSONNEL

- ▶ Always observe the information in this manual, particularly the safety instructions and the warning instructions.
- ▶ Always follow statutory provisions concerning occupational safety and accident prevention regulations.



4.5 PERSONAL SAFETY EQUIPMENT

Danger due to dangerous fluids or vapors!

Serious or fatal injuries due to inhalation, swallowing or contact with the skin or eyes.

- ▶ When preparing or working with lacquer and when cleaning the device, follow the working instructions of the manufacturer of the lacquers, solvents and cleaning agents being used.
- ▶ Implement the prescribed safety measures, in particular the wearing of safety glasses, safety clothing and protective gloves as well as the use of protective hand cream.
- ▶ Use a mask or breathing apparatus if necessary.
- ▶ For sufficient health and environmental safety: Operate the device in a spray booth or on a spraying wall with the ventilation (extraction) switched on.
- ▶ Wear suitable protective clothing when working with hot products.



4.6 SAFE HANDLING OF WAGNER SPRAY DEVICES

Danger due to injection of lacquer or flushing agent into the skin!

The spray jet is under pressure and can cause dangerous injuries.

Avoid injection of lacquer or flushing agents:

- ▶ Never point the spray gun at people.
- ▶ Never reach into the spray jet.
- ▶ Perform the following measures before any work on the device, in the event of work interruptions and malfunctions:
 - ▶ Switch off the energy/compressed air supply
 - ▶ Relieve the pressure from the spray gun and device
 - ▶ Securing the spray gun against actuation
 - ▶ Disconnect the control unit from the mains
 - ▶ In the event of functional faults, remedy the fault as described in the chapter on troubleshooting and rectification.
- ▶ If needed, the liquid ejection devices must be checked by experts (e.g., WAGNER service technician) at least every 12 months for their work-safe condition in accordance with DGVV regulation 100-500 chapter 2.29 and chapter 2.36.
 - ▶ For shut down devices, the examination can be suspended until the next start-up.



In the event of skin injuries caused by lacquer or flushing agents:

- ▶ Note the lacquer or flushing agent that you have been using.
- ▶ Consult a doctor immediately.

Danger due to recoil forces!

Actuating the trigger can cause strong recoil forces. Thereby, the user can lose his balance and injure himself when falling.

Avoid risk of injury from recoil forces:



- ▶ Ensure that you have firm footing when operating the spray gun.

4.7 GROUNDING THE DEVICE

Danger due to electrostatic charge!

Risk of injury, explosion hazard and damage to the device.

Friction, flowing liquids and air or electrostatic coating processes create charges. Flames or sparks can form during discharge. Correct grounding of the entire spraying system prevents electrostatic charges.

- ▶ Ensure that all devices and tanks are grounded before each spraying process.
- ▶ Make sure that the ground and potential equalization of all system parts are performed reliably and continuously and can withstand the expected stress (e.g., mechanical stress, corrosion).
- ▶ Earth the workpieces being painted.
- ▶ Ensure that all persons inside the working area are grounded, e.g., that they are wearing static dissipative shoes.
- ▶ Wear static dissipative gloves when spraying. The grounding takes place via the spray gun's handle or its trigger.



4.8 PRODUCT HOSES

Danger due to bursting of product hose!

The product hose is under pressure and may cause dangerous injuries.

- ▶ Ensure that the hose material is chemically resistant to the sprayed products and the flushing agents used.
- ▶ Ensure that the product hoses and the fittings are suitable for the pressure generated.
- ▶ Ensure that the following information can be seen on the high-pressure hose:
 - ▶ manufacturer
 - ▶ permissible operating pressure
 - ▶ date of manufacture
- ▶ Make sure that the hoses are laid only in suitable places. Hoses should not be laid in the following places under any circumstances:
 - ▶ in high traffic areas
 - ▶ on sharp edges
 - ▶ on moving parts
 - ▶ on hot surfaces
- ▶ Ensure that the hoses are never run over by vehicles (e.g., fork lifts), or that the hoses are never put under pressure from the outside in any other way.
- ▶ Ensure that the hoses are never kinked. Observe maximum bending radii.
- ▶ Ensure that no work is ever performed with a damaged hose.
- ▶ Make sure that the hoses are never used to pull or move the device.
- ▶ The electrical resistance of the product hose, measured at both valves, must be less than 1 MΩ.
- ▶ Suction hoses may not be subjected to pressure.



4.9 CLEANING AND FLUSHING

Danger due to cleaning and flushing!

Explosion hazard and damage to the device.

- ▶ Non-ignitable cleaning agents and flushing agents should preferably be used.
- ▶ When carrying out cleaning work with flammable cleaning agents, make sure that all equipment and resources (e.g., collection tank, funnel, transport cart) are conductive or static dissipative and grounded.
- ▶ Observe the specifications of the lacquer manufacturer.
- ▶ Ensure that the flash point of the cleaning agent is at least 15 K above the ambient temperature or that cleaning is undertaken at a cleaning station with technical ventilation.
- ▶ Never use chloride or halogenated solvents (such as trichloroethane and methylene chloride) with devices containing aluminium or galvanized/zinc-plated parts. They may react chemically thus producing an explosion danger.
- ▶ Take measures for workplace safety.
- ▶ It should be noted that when the device is put into operation or emptied: depending on the coating product used, depending on the rinsing agent (solvent) used, there may briefly be a mixture inside the pipes and equipment which can ignite.
- ▶ Only use electrically conductive tanks for cleaning and flushing agents.
- ▶ The tanks must be grounded.

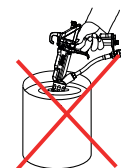
An explosive gas/air mixture forms in closed tanks.

- ▶ Never spray into a closed tank when using solvents for flushing.

External cleaning

When cleaning the exterior of the device or its parts, also observe the following:

- ▶ Relieve the pressure from the device.
- ▶ De-energize the device electrically.
- ▶ Disconnect the pneumatic supply line.
- ▶ Use only moistened cloths and brushes. Never use abrasive agents or hard objects and never spray cleaning agents with a gun. Cleaning the device must not damage it in any way.
- ▶ Ensure that no electric component is cleaned with or immersed into solvent.



4.10 TOUCHING HOT SURFACES

Danger due to hot surfaces because of hot coating products!

Risk of burn injuries

- ▶ Only touch hot surfaces if you are wearing protective gloves.
- ▶ When operating the device with a coating product with a temperature of $> 43\text{ }^{\circ}\text{C}$; $109\text{ }^{\circ}\text{F}$, apply a warning label to the device that says "Warning - Hot Surface."

Instruction label: Order no. 9998910

Protection label: Order no. 9998911



Info

Order the two labels together.



4.11 MAINTENANCE AND REPAIR

Danger due to improper maintenance and repair!

Danger to life and equipment damage.

- ▶ Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
- ▶ Repair or replacement of devices or parts of devices are only allowed to be performed outside the hazard area by qualified personnel.
- ▶ Use only WAGNER original spare parts and accessories.
- ▶ Do not change or modify the device; if change is necessary, contact WAGNER.
- ▶ Only repair and replace parts that are listed in Chapters Accessories [▶▶ 51] and Spare parts [▶▶ 56] and that are assigned to the device.
- ▶ Do not use any defective components.
- ▶ Before all work on the device and in the event of work interruptions:
 - ▶ Relieve the pressure from the spray gun, product hoses and all devices.
 - ▶ Secure the spray gun against actuation.
 - ▶ Switch off the energy and compressed air supply.
 - ▶ Disconnect the control unit from the mains.
- ▶ Observe the operating and service manual for all work.

4.12 PROTECTIVE AND MONITORING EQUIPMENT

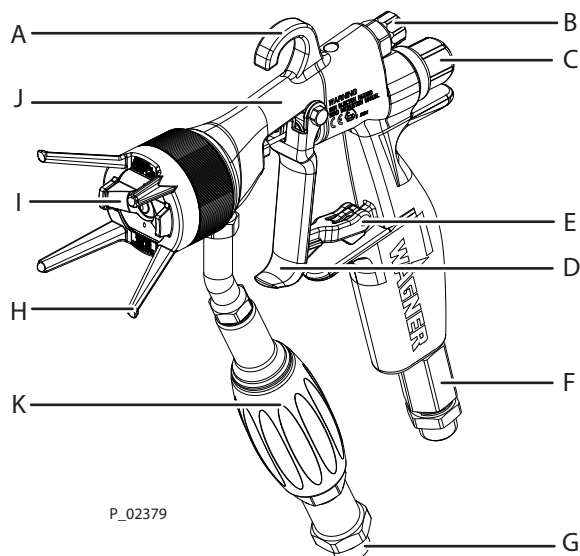
Danger due to removal of protective and monitoring equipment!

Danger to life and equipment damage.

- ▶ Protective and monitoring equipment must not be removed, modified or rendered unusable.
- ▶ Regularly check for perfect functioning.
- ▶ If defects are detected on protective and monitoring equipment, the system must not be operated until these defects are remedied.

5 DESCRIPTION

5.1 COMPONENTS



Pos	Designation
A	Suspension hook
B	Shaping air regulator
C	Spring cap
D	Trigger
E	Trigger locking device
F	Air connection
G	Product connection
H	Union nut with nozzle protection
I	Nozzle / Air cap
J	Gun housing
K	Turning handle with filter housing

5.2 FUNCTIONING

If the trigger (D) is operated when the trigger locking device (E) is released, then the air valve opens first. Atomizing air flows through air connection (F) to air cap (I). The product valve opens first if approx. 1/2 of the trigger's path is covered. The quantity of air for the atomization of the spray jet is preset via the external air automatic controller. The spray pattern can be adjusted using the shaping air regulator (B).

5.3 PROTECTIVE AND MONITORING EQUIPMENT

The spray gun is secured with the trigger locking device (E) (the lever turned in the spraying direction and fastened in the groove). The nozzle holder (H) has an anti-contact guard.

5.4 EXTENT OF DELIVERY

This AirCoat manual gun is available in two different versions. The choice of nozzle depends on the application, therefore this component is not included in the standard scope of delivery. A selection guide for spray gun accessories can be found in chapter Accessories [►► 51].

5.5 VARIANTS

Order no.	Designation
2313585	GM 4700AC 25 MPa, NPSM1/4" product connection
2315700	GM 4700AC-H 35 MPa, NPSM1/4" product connection (H = for processing heated product)

Please always order the nozzle separately.

5.6 STANDARD EQUIPMENT

Stk	Order no.	Designation
1	2316429	Declaration of conformity
1	2311729	Operating manual, in German
1	See chapter Languages [►► 6]	Operating manual in local language
1	394335	Spring cap 16 MPa; 160 bar; 2320 psi

For special versions the delivery note applies.

5.7 DATA

5.7.1 Materials of the Parts Transporting Paint

Metals		Plastics	
Carbide	Stainless steel 1.4305	POM	FPM
Stainless steel 1.4301	Stainless steel 1.4104	PTFE	PA

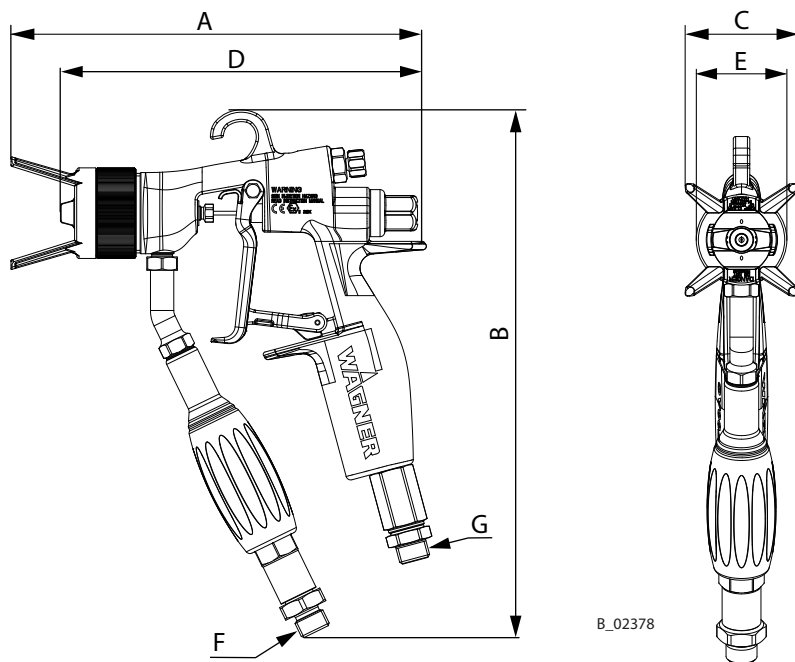
5.7.2 Technical data

Description	Units	GM 4700AC	GM 4700AC-H
Maximum air inlet pressure	bar; MPa; psi	8; 0.8; 116 recommended: 2; 0.2; 29	
Maximum product pressure *	bar; MPa; psi	250; 25; 3625 (160*; 16; 2320)	350; 35; 5076 (160*; 16; 2320)
Product connection	inch	NPSM 1/4"	
Air connection	inch	G1/4"	
Filter	Mesh	See chapter Push-in filter [►► 53]	
Weight	g; oz	595; 20.9	
pH range of the product	pH	3.5–9.0	
Maximum product temperature	°C; °F	55; 131	80; 176
Maximum air temperature	°C; °F	43; 109	
Sound level at 0.3 MPa; 3 bar; 43.5 psi air pressure and 11 MPa; 110 bar; 1549 psi product pressure **	dB(A)	< 82	

* Spring cap 16 MPa; 160 bar; 2320 psi is included.

** A-rated sound pressure level of emissions measured at a distance of 0.5 m, LpA 0.5 m in accordance with BS EN 14462:2015.

5.7.3 Dimensions and Connections



B_02378

Dimensions		
Pos	mm	inch
A	173	6.81
B	216	8.50
C	48	1.89
D	152	5.98
E	39	1.54
F	--	NPSM 1/4"
G	--	G1/4"

6 ASSEMBLY AND COMMISSIONING

6.1 TRAINING OF ASSEMBLY/COMMISSIONING PERSONNEL

- The assembly and commissioning personnel must have the technical skills to safely commission the device.
- When assembling, commissioning and carrying out all work, read and follow the operating manuals and safety regulations for the additionally required system components.

A skilled person must check to ensure that the device is in a reliable state after it is assembled and commissioned.

6.2 STORAGE CONDITIONS

Until the point of assembly, the device must be stored in a dry location, free from vibrations and with a minimum of dust. The device must be stored in closed rooms.

The air temperature at the storage location must be between -20 °C and +60 °C (-4 °F and +140 °F).

The relative air humidity at the storage location must be between 10 and 95% (without condensation).

6.3 INSTALLATION CONDITIONS

The air temperature at the installation site must be in a range between 0 and 40 °C; 32 and 104 °F.

The relative air humidity at the installation site must be between 10 and 95% (without condensation).

6.4 INSTALLATION AND CONNECTION

The AirCoat manual gun GM 4700AC must be combined with various components to make up a spraying system. The system shown in the figure is only one example of an AirCoat spraying system. Your WAGNER distributor would be happy to assist you in creating a spraying system solution that meets your individual needs.

You must familiarize yourself with the operating manuals and the safety regulations of all additional system components before starting commissioning.

This diagram shows the exploded view of a trimmer head assembly. The components are labeled as follows:

- A**: The main trimmer head housing.
- B**: A small pin or screw used for assembly.
- C**: A small component, possibly a switch or button.
- D**: A small cylindrical component, likely a filter or cap.
- E**: A small ring or O-ring.
- F**: The long, tapered shaft of the trimmer head.
- G**: The trimmer head guard or protective cover.
- H**: A small component, possibly a pin or screw.
- I**: A small cylindrical component, likely a filter or cap.
- J**: A small pin or screw used for assembly.
- K**: The handle and control lever assembly.
- L**: A long, curved shaft or tube, likely for the trimmer line.
- M**: A small component, possibly a switch or button.
- N**: The long, tapered shaft of the trimmer head.

A	Product pump	H	High pressure product hose
B	Compressed air shut-off valve	I	High-pressure filter/product pressure release
C	Pressure regulator	J	Return line
D	Air pressure regulator with air filter	K	Pump mounting trolley
E	Grounding cable	L	Suction system
F	Air hose, electrically conductive	M	Compressed air network
G	AirCoat spray gun	N	Protective hose

- Operate the device in a spray booth approved for the respective working materials.
- or -
- Operate the unit on an appropriate spraying wall with the ventilation (extraction) switched on.
- Observe national and local regulations for the outgoing air speed.

6.4.3 Air Supply Lines

WARNING

Hose connections!

Risk of injury and damage to the device.

- ▶ Do not mix up hose connections of product hose and air hose.
- ▶ Ensure that only dry, clean atomizing air is used in the spray gun! Dirt and moisture in the atomizing air worsens the spraying quality and spray pattern.



6.4.4 Product Supply Lines

NOTICE

Impurities in the spraying system

Spray gun blockage, products harden in the spraying system.

- ▶ Flush the spray gun and paint supply with a suitable flushing agent before commissioning.

DANGER

Bursting hose, bursting threaded joints!

Danger to life from injection of product.

- ▶ Ensure that the hose material is chemically resistant to the sprayed products.
- ▶ Ensure that the spray gun, fittings and product hose between the device and the spray gun are suitable for the pressure generated in the device.
- ▶ Ensure that the following information can be seen on the high-pressure hose:
 - ▶ Manufacturer
 - ▶ Permissible operating pressure
 - ▶ Date of manufacture



6.5 GROUNDING

WARNING

Heavy paint mist if earthing is insufficient!

Danger of poisoning.

Insufficient paint application quality.

- ▶ Earth all unit components.
- ▶ Earth the workpieces being painted.



A conductive connection (potential equalization cable) must be established between original tank and the equipment.

6.6 SAFETY CHECKS

- ▶ Carry out safety checks in accordance with chapter Safety Checks and Maintenance Intervals [▶▶ 30].

6.7 LACQUER PREPARATIONS

The viscosity of the lacquer is of great importance. The best spraying results are obtained with values between 80 and 260 millipascals (mPas) $\times$ sec.

Please also read the technical data sheet of the lacquer for optimal processing, viscosity adjustment and intermixing of the product.

6.8 START UP

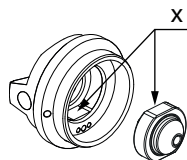
! NOTICE

Impurities in the spraying system

Spray gun blockage, products harden in the spraying system.

- Flush the spray gun and paint supply with a suitable flushing agent before commissioning.

6.8.1 Procedure



B_02261

1. Secure the spray gun.
2. Connect the product hose to the spray gun and product supply system.
3. Connect air hose to spray gun and to oil-free, dry air supply.
4. For spray guns with filters, insert a suitable filter (see chapter Accessories [►► 51]).
5. Fit nozzle on nozzle seal. Fit air cap over nozzle. Note the flattened parts (X) on the nozzle and in the air cap. Fit the union nut with nozzle guard and tighten by hand.
6. Visually check the permissible pressures for all the system components.
7. Make sure that the device and all other conductive parts within the work area are grounded.
8. Set operating pressure at 100 bar; 10 MPa; 1450 psi and use a suitable medium to check that connections do not leak.

Note:

Pull the trigger and check whether the spray gun closes correctly upon release.

9. Relieve the pressure of the spray gun and device and secure the spray gun.

6.8.2 Verifying a Safe Operational Condition

A skilled person must check to ensure that the device is in a reliable state after it is assembled and commissioned.

This includes:

- Safety checks in accordance with chapter Safety Checks and Maintenance Intervals [►► 30].

7 OPERATION

7.1 TRAINING THE OPERATING PERSONNEL

- The operating personnel must be qualified to operate the entire system.
- The operating staff must be familiar with the potential risks associated with improper behavior as well as the necessary protective devices and measures.
- Before work commences, the operating personnel must receive appropriate system training.

7.2 TASKS

Ensure that:

1. the regular safety checks are carried out in accordance with Chapter Safety Checks and Maintenance Intervals [►► 30],
2. commissioning is carried out in accordance with Chapter Start up [►► 22].

7.2.1 Starting to spray with the AirCoat

1. Start up with product supply set to approx. 8 MPa; 80 bar; 1160 psi operating pressure.
2. Spray (release locking device and pull trigger) and at the same time, observe how the product is atomizing.
3. Set the spray pressure on the product pump to a point where good product atomization is achieved.
4. Open the air pressure regulator for the atomizing air and adjust it so that an optimal atomization is achieved. (The interrelation between spray pattern and atomizing air is shown in the figure below).
5. Use the shaping air controller on the spray gun to adjust the shaping air to atomizing air ratio, until the optimal spray pattern is achieved.

Note:

Repeat points 3, 4 and 5 until the optimum is reached (iterative process).

Spray pattern shapes



①		②		③	
1	No atomizing air	2	Too little atomizing air	3	Correct amount of atomizing air

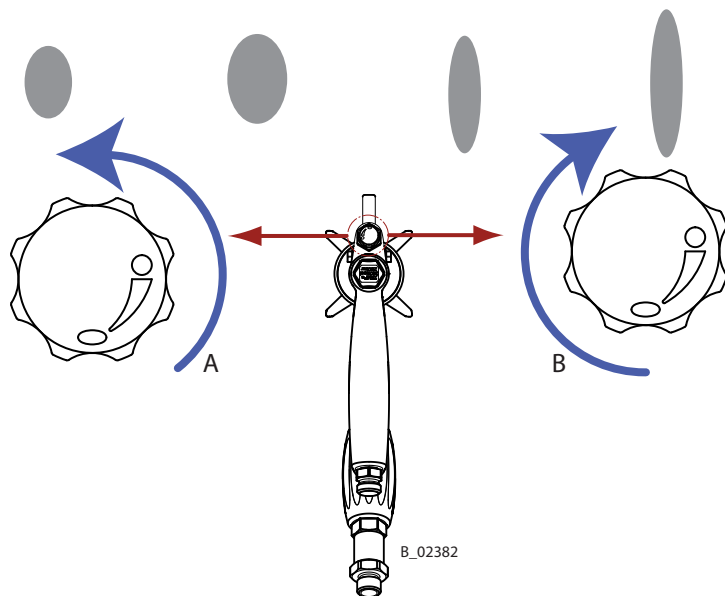
Note:

The flow rate can be changed by:

- changing the product pressure or
- Using a different flat jet nozzle (see chapter Changing AirCoat nozzle [►► 25] and chapter Accessories [►► 51]).

7.2.2 Adjusting the Spray Pattern

The spray pattern can be adjusted to suit the object being sprayed using the shaping air regulator. The illustration shows the influence of the shaping air regulator on the spray pattern. Other nozzle sizes can be mainly used to obtain larger or smaller spray patterns.



A	Shaping air regulator fully open	B	Shaping air regulator closed
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7.3 PRESSURE RELIEF / WORK INTERRUPTION

The pressure must always be relieved:

- after the spraying tasks are finished,
- before servicing or repairing the spraying system,
- before carrying out cleaning tasks on the spraying system,
- before moving the spraying system to another location,
- before something must be checked on the spraying system,
- before the nozzle or the filter is removed from the spray gun.

The components for pressure relief on a CE-compliant spraying system include:

- Air cock with pressure relief hole mounted between compressed air source and pneumatic pump.
- Outlet equipment (return valve) mounted between pump and spray gun.

Pressure relief procedure

1. Close and secure the spray gun.
2. Relieve the air and product pressure in the product pressure generator in accordance with the respective operating manual.
3. Point the spray gun into the grounded metal tank for return product.
4. Release and open spray gun to relieve the pressure. Avoid splashback.
5. When no further overpressure is detected, close and secure the spray gun.
 - In the case of a clogged nozzle, proceed in accordance with chapter Cleaning AirCoat nozzle [► 26].
 - If the product hose is obstructed: slowly loosen the hose connection to release the remaining pressure.

Note:

Always follow the procedure described above if pressure relief is specified in the operating manual.

If the spraying system has been used with 2K products:

! NOTICE

Hardened working product in the spraying system when 2K product is processed!

Using 2K materials can destroy the pump and spraying system.

- ▶ Follow the manufacturer's working instructions, particularly regarding the pot life.
- ▶ Rinse thoroughly before the end of the pot life.
- ▶ The potlife time decreases at raising temperature.

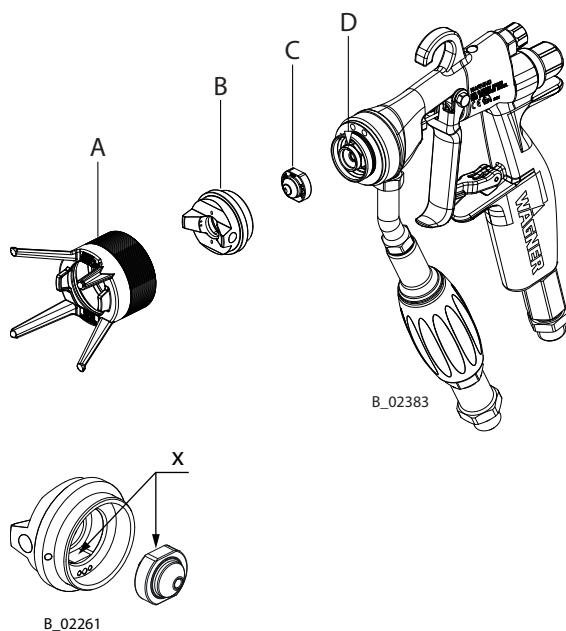
7.4 CHANGING AIRCOAT NOZZLE

! NOTICE

Defective AirCoat nozzle!

Insufficient paint application quality.

- ▶ Do not use sharp-edged objects on the carbide on the nozzle.



1. Relieve the pressure on the spray gun and product pressure generator.
2. Secure the spray gun with the trigger locking device.
3. Unscrew union nut (A).
4. Remove air cap (B).
5. Press AirCoat nozzle (C) out of air cap (B) by hand and treat with cleaning agent until all remaining paint has been dissolved.

Assembly:

1. Fit AirCoat nozzle (C) in nozzle seal (D).

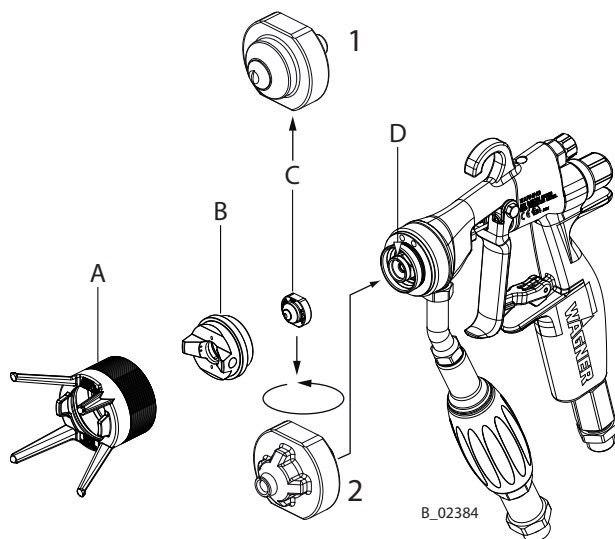
2. Fit air cap (B) over nozzle (C). Note the flattened parts (X) on the nozzle and in the air cap.
3. Fit the union nut with nozzle guard (A) and tighten by hand.

7.4.1 Cleaning AirCoat nozzle

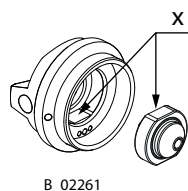
For disassembly and assembly of AirCoat nozzles, see chapter Changing AirCoat nozzle [►► 25].

The AirCoat nozzle (C) can be placed into a cleaning solution which has been recommended by the paint manufacturer.

7.4.2 Eliminating nozzle clogging



1	Nozzle in spray position	2	Nozzle in cleaning position
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1. Relieve the pressure of the spray gun and device.
2. Secure the spray gun with the trigger locking device.
3. Unscrew the union nut with nozzle guard (A).
4. Remove air cap (B).
5. Push AirCoat nozzle (C) manually out of the air cap (B), reverse it and put it onto the nozzle seal (D) with nozzle tip facing towards the rear.
6. Refit air cap (B) on nozzle (C). Note the flattened parts (X) on the nozzle and in the air cap.
7. Screw the union nut with nozzle guard (A) over the air cap (B) onto the spray gun and tighten by hand.
8. Switch the product pressure back on.
9. Turn the trigger locking device to the spraying position and briefly pull trigger.

10. When the blockage has been flushed out, secure the spray gun with the trigger locking device.
11. Relieve the pressure of the spray gun and device.
12. Unscrew the union nut with nozzle guard (A).
13. Remove air cap (B) and push AirCoat nozzle (C) out by hand. Clean the nozzle and put it back on nozzle seal (D) in the spray position.
14. Refit air cap (B) on nozzle (C). Note the flattened parts (X) on the nozzle and in the air cap.
15. Screw the union nut with nozzle guard (A) over the air cap (B) onto the spray gun and tighten by hand.
16. Switch the product pressure and the air pressure back on.

8 CLEANING AND MAINTENANCE

8.1 CLEANING

8.1.1 Safety Instructions

WARNING

Incompatibility of cleaning/flushing agent and working medium!

Risk of explosion and danger of poisoning by toxic gases.

- ▶ Examine the compatibility of the flushing and cleaning agents and working media on the basis of the safety data sheets.



8.1.2 Cleaning personnel

Cleaning work should be undertaken regularly and carefully by qualified and trained personnel. They should be informed of specific hazards during their training.

The following hazards may arise during cleaning work:

- risk to health from inhaling solvent vapors
- use of unsuitable cleaning tools and aids

8.1.3 Flushing and Cleaning the Spray Gun

NOTICE

Flushing agent in the air duct!

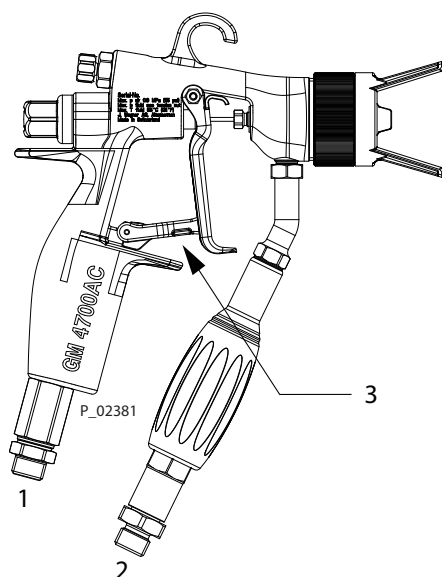
Functional faults caused by swollen seals.

- ▶ Always point the spray gun down when cleaning.
- ▶ Ensure that neither paint nor flushing agent enters the air duct.
- ▶ Never immerse the spray gun in cleaning agent.

The spray gun and the device must be cleaned and flushed daily. The cleaning/flushing agents used for cleaning or flushing must correspond with the working material.

Note:

Methylene chloride is not recommended as an agent for flushing or cleaning the spray gun or other system components.



1	Air	2	Material
3	Trigger locking device in secured position		

1. Visual check: personal safety equipment, grounding and all devices ready to use.
2. Relieve the pressure of the product pressure generator and of the spray gun in accordance with chapter Pressure Relief / Work Interruption [▶▶ 24].
3. Secure the spray gun.
4. Dismount nozzle and clean separately (see chapter Changing AirCoat nozzle [▶▶ 25] and Cleaning AirCoat nozzle [▶▶ 26]).
5. Supply product pressure generator with flushing agent according to the operating manual of the product pressure generator.
6. Set product pressure generator to a maximum product pressure of 4 MPa; 40 bar; 580 psi.
7. Flush product pressure generator in accordance with the respective operating manual.
8. Point the spray gun without nozzle into the grounded metal tank for return product.
9. Unlock the spray gun and rinse out thoroughly.
10. Cleaning or replacing the product filter in accordance with chapter Changing or cleaning filter insert [▶▶ 33].
11. Repeat steps 7–10 if necessary.
12. Relieve the pressure of the product pressure generator and of the spray gun in accordance with chapter Pressure Relief / Work Interruption [▶▶ 24].
13. Secure the spray gun.
14. Clean the gun body with a cleaning agent recommended by the lacquer manufacturer. Clean the trigger locking device area.
15. Dry with a cloth or a blow gun.
16. Dispose of the contents of the tank for return product according to the local regulations.

8.2 MAINTENANCE

8.2.1 Maintenance personnel

Maintenance work should be undertaken regularly and carefully by qualified and trained personnel. They should be informed of specific hazards during their training.

The following hazards may arise during maintenance work:

- risk to health from inhaling solvent vapors
- use of unsuitable tools and aids

A skilled person must ensure that the device is checked for being in a reliable state after maintenance work is completed.

8.2.2 Safety instructions

DANGER

Incorrect maintenance/repair!

Danger to life and equipment damage.

- ▶ Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
- ▶ Use only WAGNER original spare parts and accessories.
- ▶ Only repair and replace parts that are listed in the spare parts chapter and that are assigned to the device.
- ▶ Before all work on the device and in the event of work interruptions:
 - ▶ Relieve the pressure from the spray gun, product hoses and all devices.
 - ▶ Secure the spray gun against actuation.
 - ▶ Switch off the energy and compressed air supply.
 - ▶ Disconnect the control unit from the mains.
- ▶ Observe the operating and service manual for all work.



Prior to maintenance

1. Flush and clean the system (see chapter Flushing and Cleaning the Spray Gun [►► 28]).
2. Interrupt the air supply.

After maintenance

1. Carry out safety checks in accordance with chapter Safety Checks and Maintenance Intervals [►► 30].
2. Put the system into operation and check for leaks as described in chapter Lacquer Preparations [►► 22].
3. Carry out functional check in accordance with chapter Function test after repair work [►► 48].
4. Have the system checked for safe condition by a skilled person.

8.2.3 Safety Checks and Maintenance Intervals

Every day

- ▶ Check grounding: see chapter Grounding [►► 21].
- ▶ Check hoses, tubes and couplings: see chapter Replacing the product hose or air hose [►► 31].

- ▶ Flush and clean the spray gun in accordance with chapter Flushing and Cleaning the Spray Gun [▶▶ 28].

Weekly

1. Check spray guns for damage.
2. Check that the safety fixtures function properly (see chapter Protective and monitoring equipment [▶▶ 16]).

Yearly or as required

1. In accordance with DGUV regulation 100-500, chapters 2.29 and 2.36:
 - ▶ The liquid ejection devices should be checked by an expert (e.g., WAGNER service technician) for their safe working conditions as required and at least every 12 months.
 - ▶ For shut down devices, the examination can be suspended until the next start-up.

8.2.3.1 Product Hoses, Pipes and Couplings

The service life of the complete hoses between product pressure generator and application device is reduced due to environmental influences even when handled correctly.

1. Check hoses, pipes, and couplings every day and replace if necessary.
2. Before every commissioning, check all connections for leaks.
3. Additionally, the operator must regularly check the complete hoses for wear and tear as well as for damage at intervals that he/she has set. Records of these checks must be kept.
4. Replace the complete hose if one of the following two periods is exceeded:
 - ▶ 6 years from the date of the hose crimping (see fitting embossing).
 - ▶ 10 years from the date of the hose imprinting.

Fitting embossing (if present)	Meaning
xxx bar	Pressure
yymm	Crimping date (year/month)
XX	Internal code

Hose imprinting *	Meaning
WAGNER	Name/manufacture
yymm	Date of manufacture (year/month)
xxx bar (xx MPa) e.g. 270 bar (27 MPa)	Pressure
XX	Internal code
DNxx (e.g., DN10)	Nominal diameter

* = If available, possibly without imprint for low pressure!

8.2.4 Replacing the product hose or air hose

1. Flush and clean the spray gun in accordance with chapter Flushing and Cleaning the Spray Gun [▶▶ 28].
2. Relieve the pressure of the spray gun and device.
3. Secure the spray gun with the trigger locking device.

Product hose

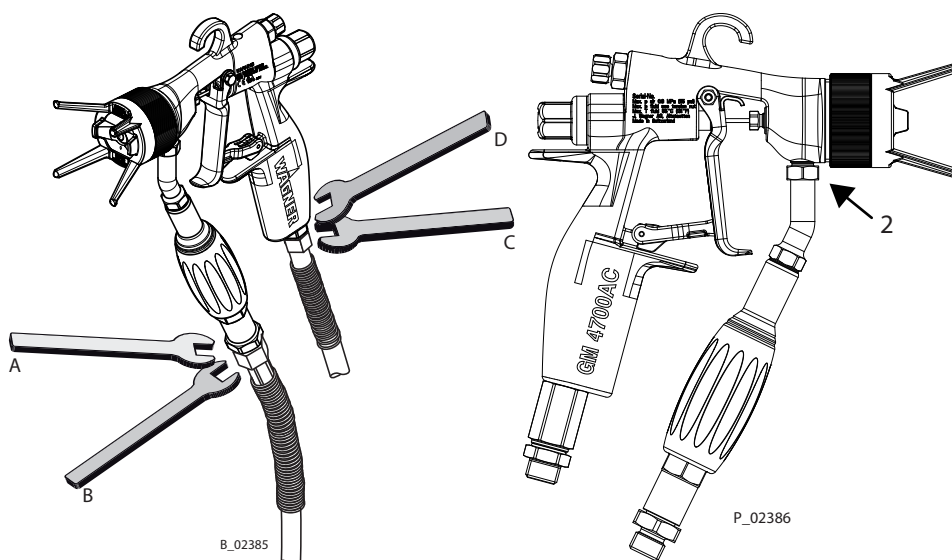
1. Place the size A open-end wrench on the upper part of the product connection and hold it in place.
2. Unscrew the product hose nut using the size B open-end wrench.

Air hose

1. Place the size D open-end wrench on the upper part of the air connection and hold it in place.
2. Loosen the air hose's nut with a size C open-end wrench.

Assembly:

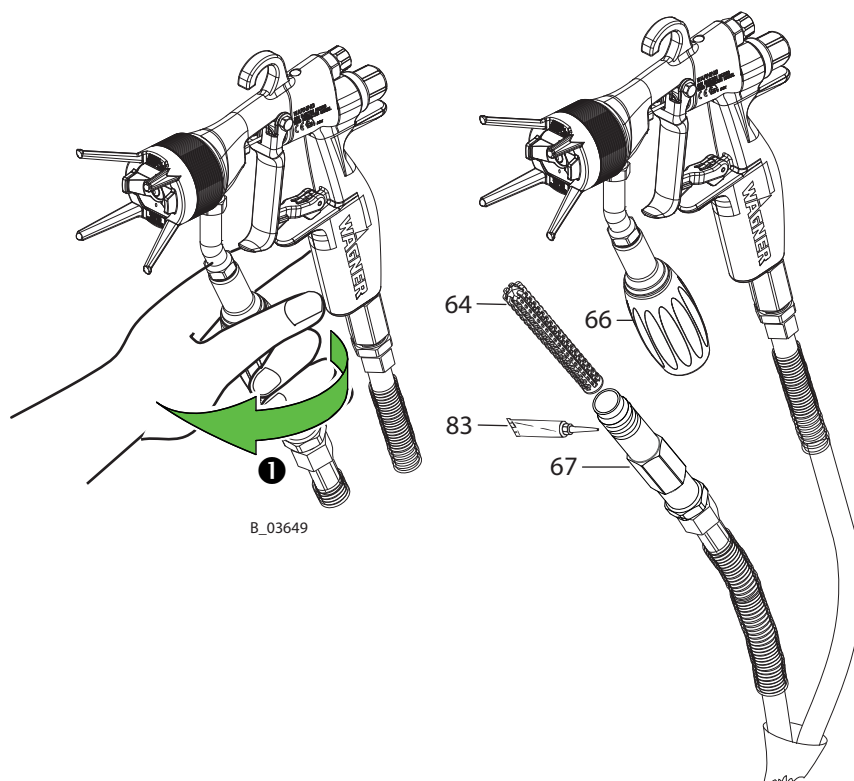
- Screw on the product hose or air hose by hand and tighten with the two open-end wrenches.



- 2 Do not unscrew the filter connection. The filter connection should be replaced in accordance with chapter Replacing the filter connection [► 45].

Description	Wrench A	Wrench B	Wrench C	Wrench D
GM 4700AC with NPS1/4" filter	19 mm; 0.75 inches	19 mm; 0.75 inches	17 mm; 0.67 inches	17 mm; 0.67 inches

8.2.5 Changing or cleaning filter insert



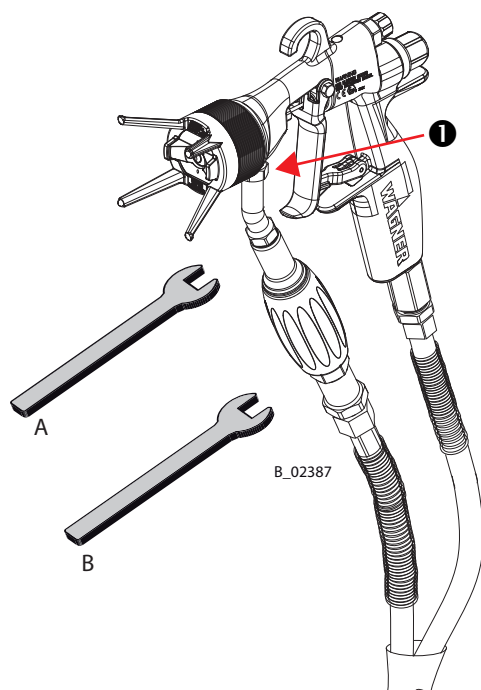
1	open
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1. Flush and clean the spray gun in accordance with chapter Flushing and Cleaning the Spray Gun [►► 28].
2. Relieve the pressure of the spray gun and device.
3. Secure the spray gun with the trigger locking device.
4. Loosen the filter housing (67) manually with turning handle (66) and unscrew it. When the product hose together with filter housing and filter insert has been exposed, push the turning handle (66) back onto the upper filter connection.
5. Pull the filter insert (64) out of the filter housing (67).
6. Thoroughly clean all parts with flushing agent.

Assembly:

1. Push the cleaned or new filter insert (64) with opening downwards into the filter housing (67).
2. Insert the filter housing (67) into the turning handle, screw in manually with the turning handle and tighten.

Procedure if connection is difficult to loosen:



- 1 **Note:**
Do not unscrew the filter connection. The filter connection should be replaced in accordance with chapter 10.9.

Loosen filter housing (67) with wrench size B open-end wrench, supporting the filter connection with size A open-end wrench.

Wrench A	Wrench B
13 mm 0.51 inch	17 mm 0.67 inch

9 TROUBLESHOOTING AND RECTIFICATION

Functional fault	Cause	Rectification
Insufficient product output	Nozzle too small.	Select larger nozzle, see chapter Accessories [►► 51].
	Product pressure too low.	Increase product pressure.
	Spray gun filter or high-pressure filter clogged at pump.	Clean or replace filter, see chapter Changing or cleaning filter insert [►► 33].
	Nozzle clogged.	Nozzle cleaning, see chapter Eliminating nozzle clogging [►► 26].
	The valve rod path is too short.	Replace the valve rod and valve seat, see chapter Replacing parts on the valve rod [►► 38].
Poor spray pattern	Atomizing air incorrectly adjusted.	Reset atomizing air, see chapter Starting to spray with the AirCoat [►► 23].
	Nozzle worn.	Replace nozzle, see chapter Changing AirCoat nozzle [►► 25].
	Product pressure too low.	Increase the product pressure at pump.
	The product viscosity is too high.	Dilute the spray product in accordance with the manufacturer's instructions.
	Nozzle partially clogged.	Nozzle cleaning, see chapter Changing AirCoat nozzle [►► 25] and Eliminating nozzle clogging [►► 26].
	The drilled holes in the air cap are damaged or clogged.	Clean or replace air cap, see chapter Changing AirCoat nozzle [►► 25] and Air caps [►► 54].
	Incorrectly selected air cap.	Insert the correct air cap (solvent/water based lacquer) see chapter Changing AirCoat nozzle [►► 25] and Air caps [►► 54].
Valve rod leaks (paint path or air path)	The seals on the valve rod are damaged or the valve rod itself is damaged.	Replace the entire valve rod or the individual seals, see chapter Replacing parts on the valve rod [►► 38].
	Air valve seals are leaky.	Replace the air valve seal, see chapter Replacing the "air" sealing ring [►► 43].
	Pretension is too low.	Tighten the sealing screw, see chapter Assembly [►► 41].
Spray gun will not shut off correctly	The valve seat or the valve ball is damaged.	Replace the parts, see chapter Replacing parts on the valve rod [►► 38].

Functional fault	Cause	Rectification
	Pretension of the seals is too strong.	Replace the seals, see chapter Replacing parts on the valve rod [▶▶ 38] and Replacing the Nozzle Seal [▶▶ 42].

10 REPAIRS

10.1 REPAIR PERSONNEL

Repair work should be undertaken carefully by qualified and trained personnel. They should be informed of specific hazards during their training.

The following hazards may arise during repair work:

- risk to health from inhaling solvent vapors
- use of unsuitable tools and aids

A skilled person must check to ensure that the device is in a reliable state after it is repaired. A function test should be performed.

10.2 REPAIR NOTES

DANGER

Incorrect maintenance/repair!

Danger to life and equipment damage.

- ▶ Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
- ▶ Use only WAGNER original spare parts and accessories.
- ▶ Only repair and replace parts that are listed in the spare parts chapter and that are assigned to the device.
- ▶ Before all work on the device and in the event of work interruptions:
 - ▶ Relieve the pressure from the spray gun, product hoses and all devices.
 - ▶ Secure the spray gun against actuation.
 - ▶ Switch off the energy and compressed air supply.
 - ▶ Disconnect the control unit from the mains.
- ▶ Observe the operating and service manual for all work.



Before repair work

- ▶ Flush and clean the system in accordance with chapter Flushing and Cleaning the Spray Gun [▶▶ 28].
- ▶ Interrupt the air supply.

After repair work

- ▶ Carry out safety checks in accordance with chapter Safety Checks and Maintenance Intervals [▶▶ 30].
- ▶ Put the system into operation and check for leaks as described in chapter Start up [▶▶ 22].
- ▶ Have the system checked for safe condition by a skilled person.
- ▶ Function test in accordance with chapter Function test after repair work [▶▶ 48].

10.3 TOOLS

The following tools are required for carrying out the repair work on the gun described below:

- Open-end wrench size 5; size 6; size 7, size 13, size 15.
- Socket wrench size 13; size 15

- Mounting key, order no. 2445414
- Nozzle wrench, complete, order no. 128901
- Torque wrench 12±1 Nm; 8.85 lbft
- Pipe wrench
- 1.5 mm pin

Assembly aids:

Order no.	Quantity	Designation	Smaller tanks
9992831	1 pc = 50 ml	Loctite® 542	
9992833	1 pc = 250 ml	Loctite® 638 green	
9992590	1 pc = 50 ml	Loctite® 222	
9992698	1 pc = 200 g	Vaseline white, PHHV II	
9992616	1 pc = 1 kg can	Molykote® DX grease paste	50 g tube = order no. 2355419

Brand notice:

The brands specified in this document are property of the respective owners.
Loctite®, for example, is a registered trademark of Henkel.

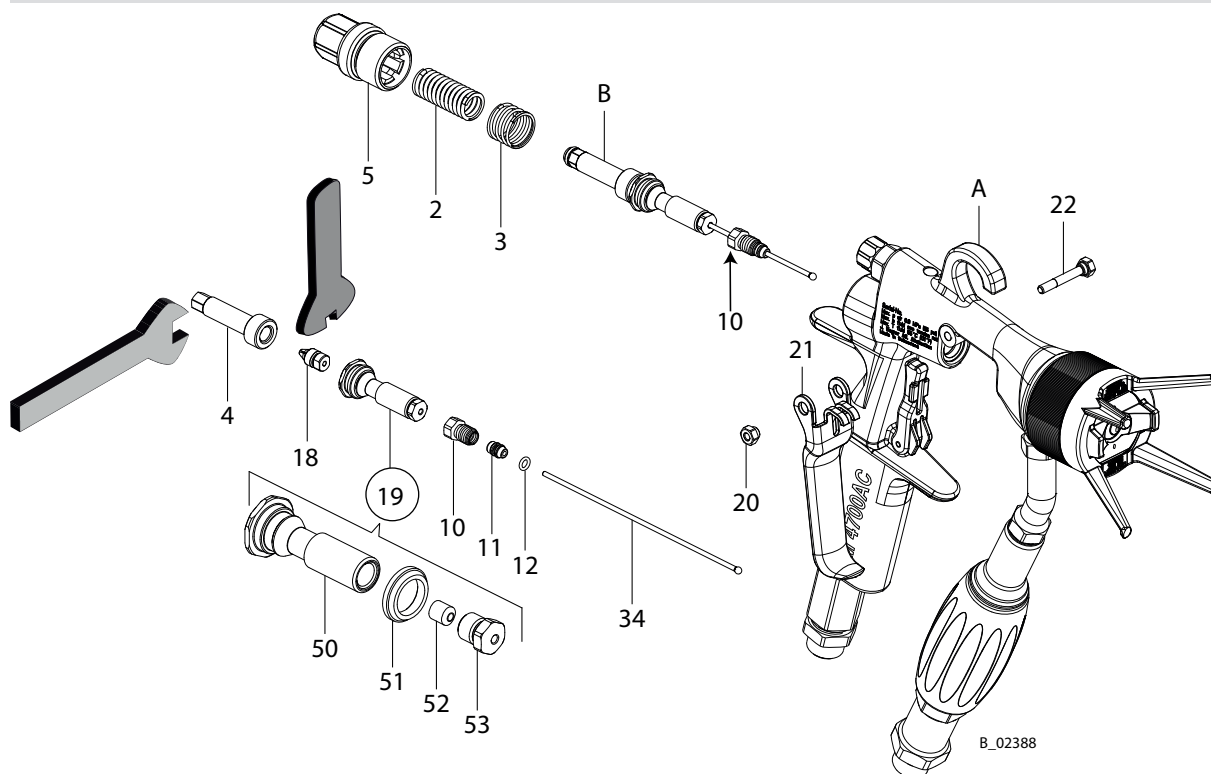
10.4 REPLACING PARTS ON THE VALVE ROD

! NOTICE

Unsuitable tool!

Damage to seals and sealing surfaces.

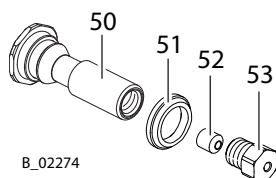
- ▶ Hold the needle with pliers or a similar tool.



1. Relieve the pressure of the spray gun and device.

2. Decommission and clean in accordance with chapter Flushing and Cleaning the Spray Gun [►► 28].
3. Secure the spray gun with the trigger locking device.
4. Unscrew the spring cap (5) using a size 15 mm; 0.59 inch socket wrench and remove the pressure springs (2) and (3).
5. Loosen the screw (22) and remove together with the nut (20).
6. Remove the trigger (21).
7. Loosen the sealing screw (10) using a size 7 mm; 0.28 inch single open-end wrench.
8. Carefully pull the valve rod unit (B), together with sealing screw (10), rearwards out of the gun housing (A).
9. Hold the clamping sleeve (4) with a size 6 mm; 0.24 inch open-end wrench and loosen collet chuck (18) with a size 5 mm; 0.20 inch open-end wrench.
10. Carefully pull valve rod (34) out forwards. Replace relevant parts.

10.4.1 Replacing Valve Tappet Seals

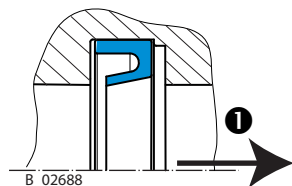
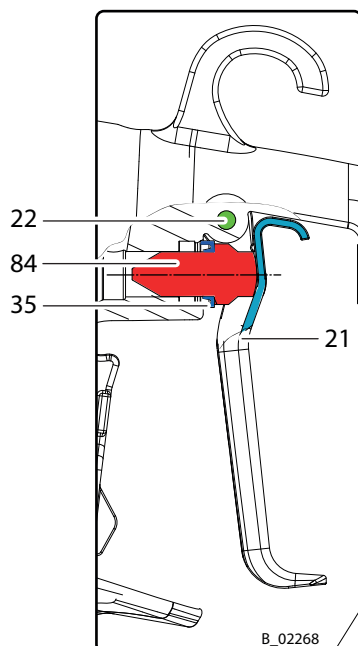


1. Using a size 13 mm; 0.51 inch open-end wrench, counterhold valve tappet (50) and, using a size 7 mm; 0.28 inch open-end wrench, unscrew cap (53).
2. Remove the air valve seal (51) and seal (52) and replace with new seals. For the assembly of the air valve seal (51) a special tool purchase (number 2445414) is necessary.
3. Screw the valve tappet (50) and cover (53) together by hand. Carefully tighten in small increments with a 7 mm; 0.28 inch and 13 mm; 0.51 inch open-end wrench until a slight resistance is perceptible when moving the valve rod (34) in the valve tappet.

Note:

The seal (52) can be pulled out of the cover (53) with the help of an eye bolt.

10.4.2 Replacing the rod seal



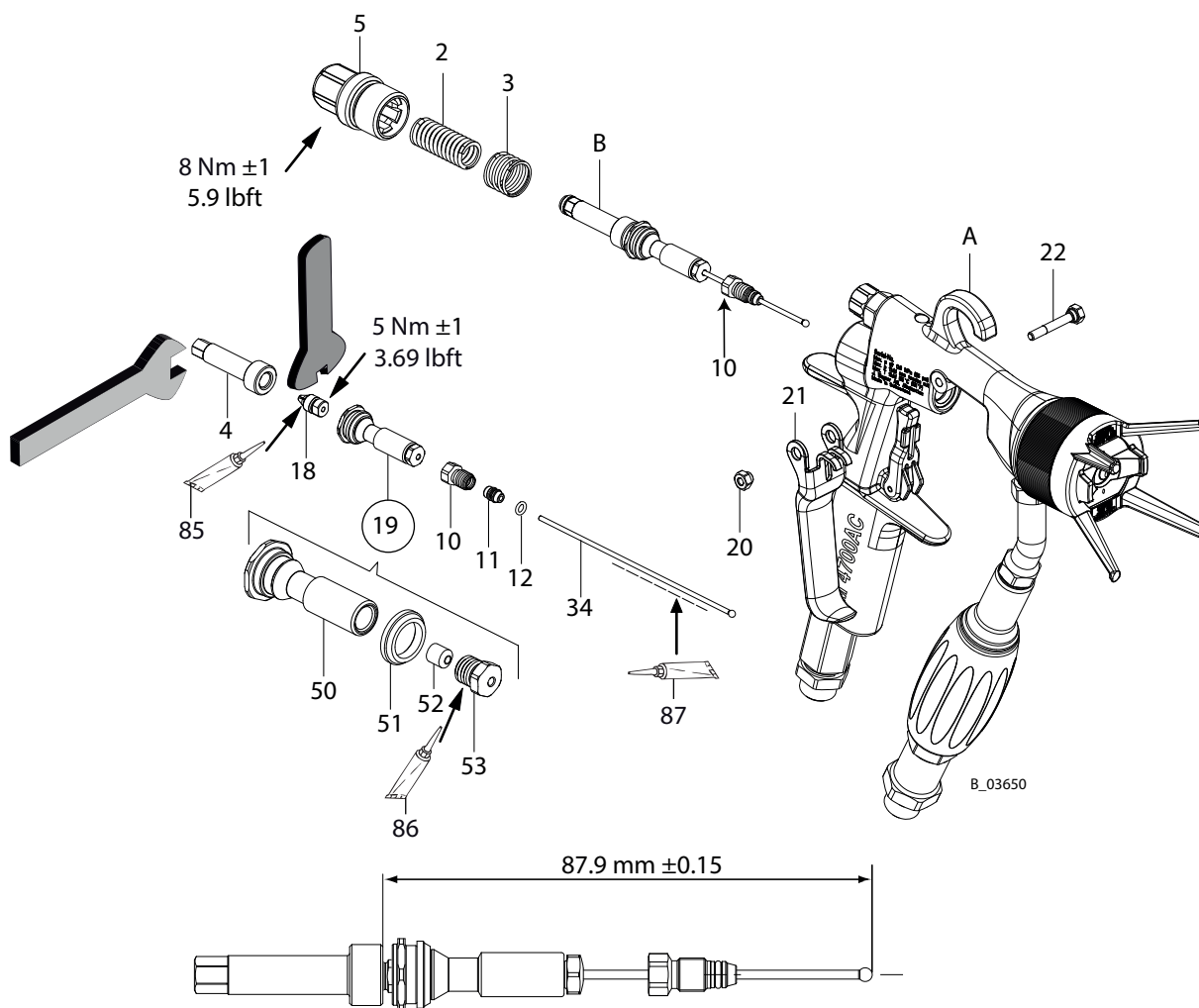
1	Spraying direction
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Note:

Note the installation position of the rod seal (35).

1. Carefully pull the rod seal (35) out of the gun housing.
2. Clean sealing surfaces in the gun housing.
3. Fit the new rod seal (35) to the rod seal tool (84).
4. Insert the rod seal tool (84) together with the rod seal (35) into the drilled hole.
5. Fit the trigger (21) with screw (22) on the gun body.
6. Carefully push the tool with the rod seal (35) over the trigger (21) into the recess in the housing.
7. Remove the trigger (21), screw (22) and rod seal tool (84).

10.4.3 Assembly



1. Attach the sealing collar (11) to the valve rod (34) together with the inserted O-ring (12) and sealing screw (10).
2. Push the completely assembled valve tappet (19) onto the valve rod (34).
3. Screw the collet chuck (18) into the clamping sleeve (4) (do not tighten).
4. Insert the preassembled valve rod into the preassembled clamping sleeve (4 and 18) up to the stop.
5. Hold the clamping sleeve (4) in position with size 6 mm; 0.24 inch wrench, screw the pre-assembled valve rod to the clamping sleeve and tighten (open-end wrench size 5 mm; 0.20 inch), tightening torque 5 ± 1 Nm; 3.69 lbft. Note reference dimension.
6. Carefully insert the complete valve rod (B) into the gun housing.
7. Screw in the sealing screw (10) but do not tighten it yet.
8. Position the trigger guard (21) and fasten with screw (22) and nut (20).
9. Insert the pressure springs (3) and (2) and screw on the spring cap (5), tightening torque 8 ± 1 Nm; 5.9 lbft.
10. Carefully tighten the sealing collar (11, 12) over the sealing screw (10).
11. Ensure that the trigger moves smoothly.

Note:

Only use silicone and resin-free grease.

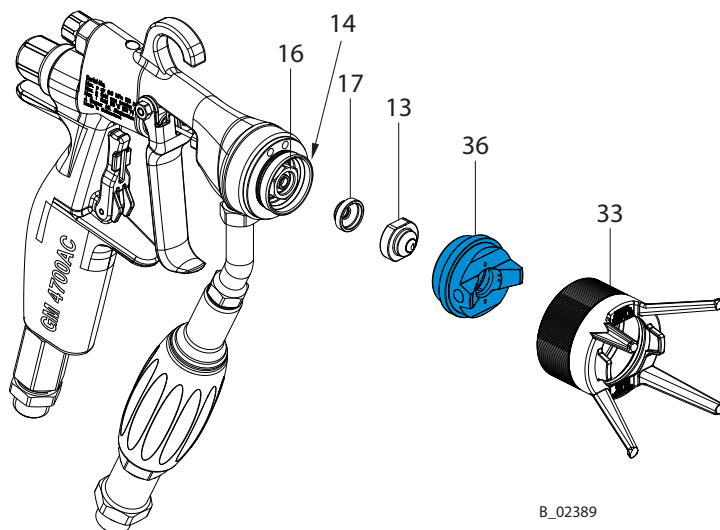
10.5 REPLACING THE NOZZLE SEAL

! NOTICE

Defective nozzle seal!

Product sprays into the air cap next to the nozzle.

- ▶ Do not clean the nozzle seal with sharp-edged objects.
- ▶ Replace the nozzle seal if the sealing surface is damaged.



1. Relieve the pressure of the spray gun and device in accordance with chapter Pressure Relief / Work Interruption [► 24].
2. Decommission and clean in accordance with chapter Flushing and Cleaning the Spray Gun [► 28].
3. Secure the spray gun with the trigger locking device.
4. Unscrew the union nut with nozzle guard (33).
5. Remove the air cap (36) together with the nozzle (13).
6. Carefully release the nozzle seal (17) using a screwdriver.
7. Attach the new nozzle seal to the valve housing (16).
8. Continue assembly in the reverse order.

10.6 REPLACING THE "AIR" SEALING RING

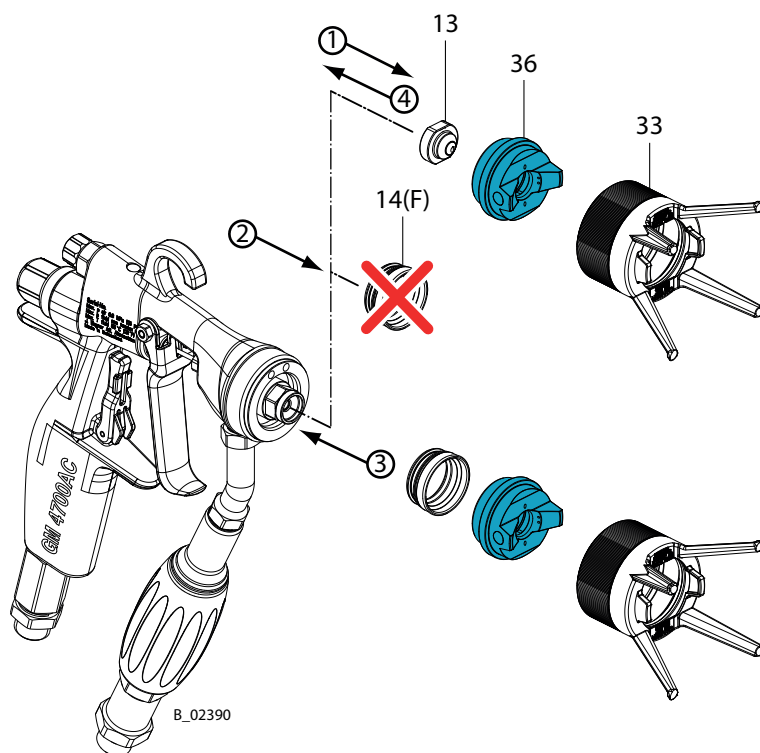
! NOTICE

Shaping air and atomizer air not separate!

Poor spray pattern.

Spray jet cannot be adjusted.

- ▶ Handle the sealing ring (14) with care.



1. Relieve the pressure of the spray gun and device in accordance with chapter Pressure Relief / Work Interruption [▶ 24].
2. Decommission and clean in accordance with chapter Flushing and Cleaning the Spray Gun [▶ 28].
3. Secure spray gun with the trigger locking device.
4. Unscrew the union nut with nozzle guard (33).
5. Remove the air cap (36) together with the nozzle (13).
6. Remove the defective sealing ring (14/F) with the help of pipe tongs or with a large screwdriver.

Assembly:

1. Plug the new sealing ring (14) onto the air cap (36).
2. Place air cap in body of gun together with sealing ring (14).
3. Attach the union nut (33) and screw it in until the sealing ring snaps into place in the mounting groove (audible snap).
4. Demount the union nut (33) and air cap (36) and complete the spray gun in accordance with chapter Changing AirCoat nozzle [▶ 25].

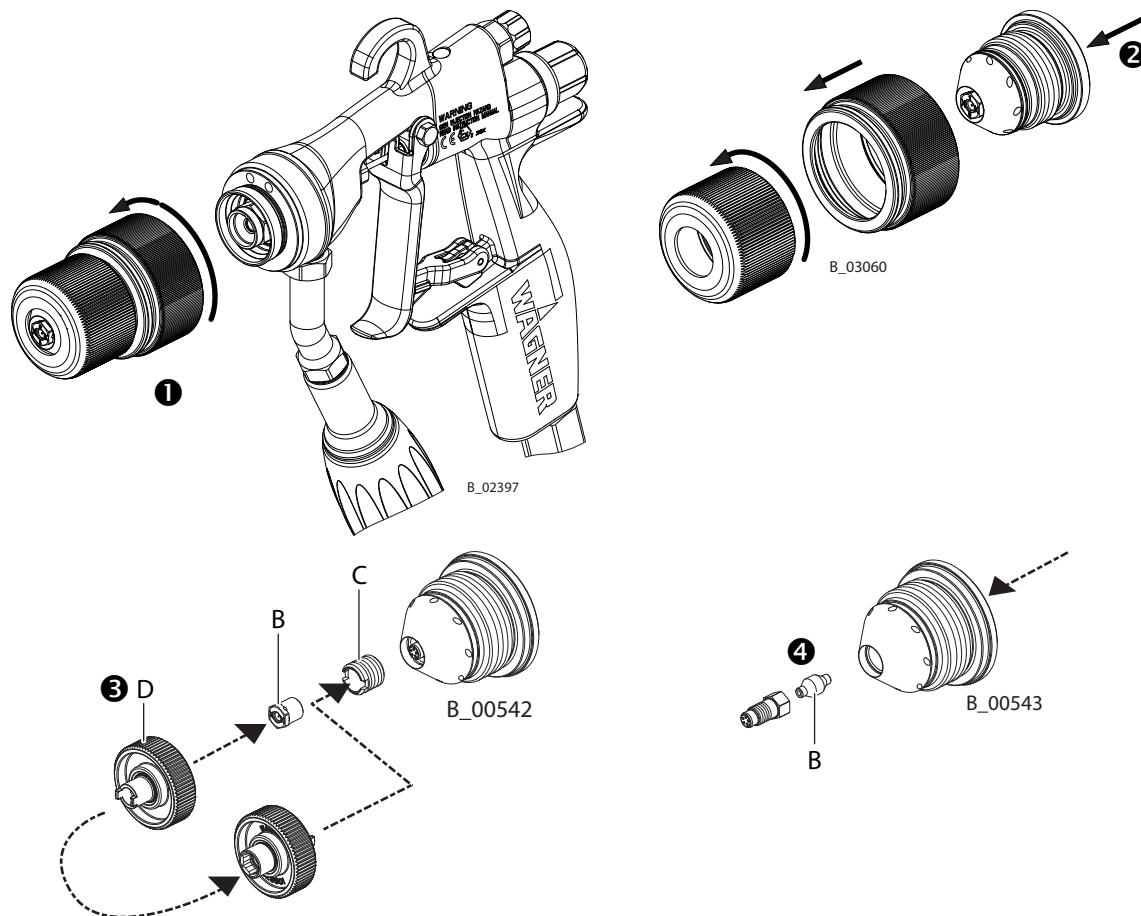
10.7 REPLACING THE SEALING FITTING OF THE ROUND JET NOZZLE

! NOTICE

Defective nozzle body!

Poor spray pattern.

- ▶ Handle the nozzle body (A) with care.

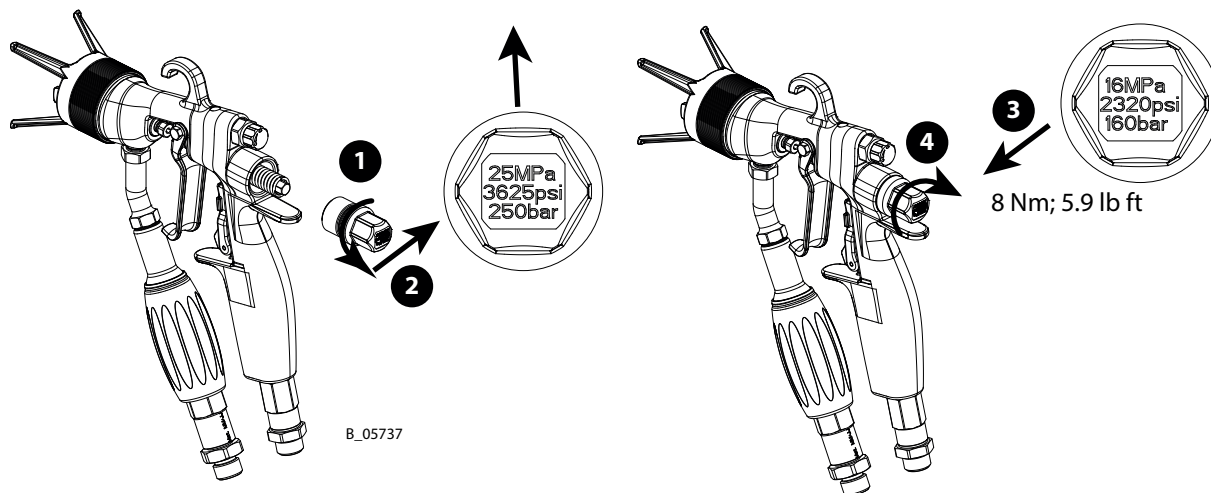


1	Unscrew the nozzle by hand.	3	Nozzle wrench (D) order no. 128901.
2	Hold in position with a size 13 mm; 0.51 inch socket wrench.	4	Eject with Ø 1.5 mm; 0.06 inch pin.

Note:

The sealing fitting (E) can be pulled out of the nozzle body using a small eye wood bolt.

10.8 REPLACING THE SPRING CAP



10.9 REPLACING THE FILTER CONNECTION

The following tools are required for carrying out the repair work on the spray gun described below:

- **For GM 4700AC:** Filter connection GM 4700AC, complete, order no. 2320114
- **For GM 4700AC-H:** Filter connection, GM 4700AC-H complete, order no. 2467826
- Open-end wrench size 13; 0.51 inch
- Loctite® 638
- Hot-air gun
- Suitable oven for curing the adhesive

10.9.1 Disassembly

WARNING

Incompatibility of cleaning agent and working medium!

Risk of explosion and danger of poisoning by toxic gases.

- ▶ Examine the compatibility of the cleaning agents and working media on the basis of the safety data sheets.

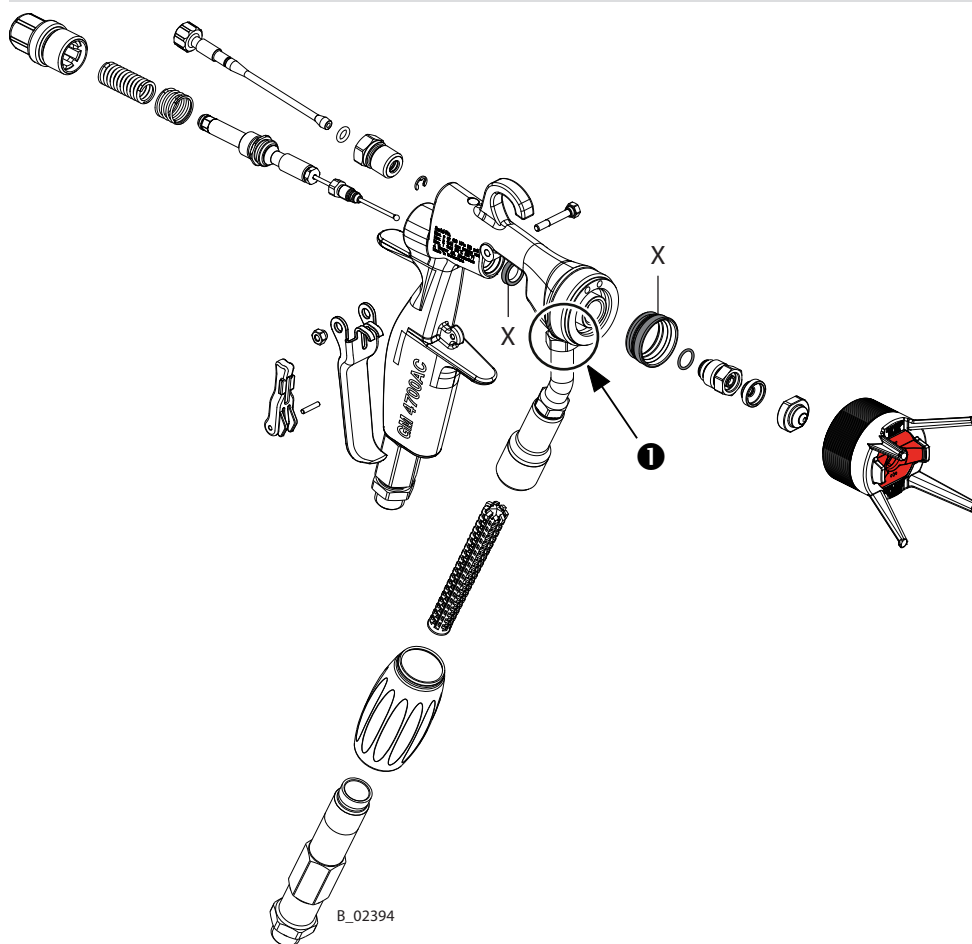


WARNING

Hot gun housing!

Burns.

- ▶ Wear protective gloves when dismantling the filter connection.



1	Heat to approx. 150 °C; 302 °F with hot-air gun
---	---

1. Dismount all movable and heat-sensitive (positions X) of the spray gun.
2. Use the air gun to heat the area around the hollow screw to approx. 150 °C; 302 °F.
3. Loosen the hollow screw with a size 13; 0.51 inch open-end wrench, then remove the filter connection.
4. Thoroughly clean all re-usable parts with a suitable solvent.

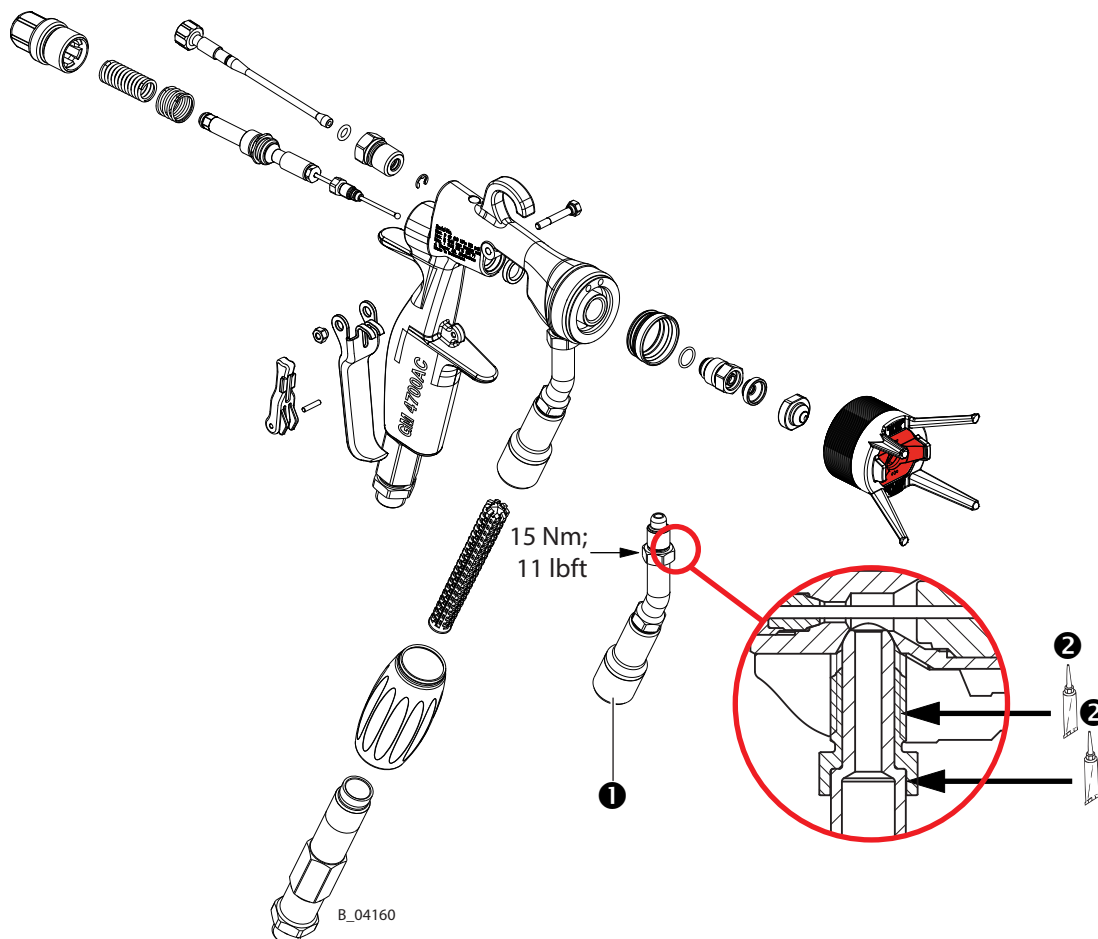
10.9.2 Assembly

WARNING

Hot gun housing!

Burns.

- ▶ Wear protective gloves.



1	GM 4700AC: order no. 2320114 GM 4700AC-H: order no. 2467826	2	Loctite® 638
---	--	---	--------------

1. Apply Loctite® 638 to the thread and between the hollow screw and filter connection.
2. Insert the filter connection into the gun connection, align and tighten the hollow screw with a tightening torque of 15 Nm; 11 lbft. Exceeding the allowable torque will damage the filter connection.
3. Harden the adhesion point in the housing in an oven at 40 °C; 104 °F for at least 30 minutes.
4. After cooling off, completely assemble the spray gun. In doing so, note the assembly information in the spare part drawing in chapter Spare parts [► 56] of the operating instructions.
5. Use a suitable medium to check the spray gun for leaks at 25 MPa; 250 bar; 3626 psi or 16 MPa; 160 bar; 2320 psi.

11 FUNCTION TEST AFTER REPAIR WORK

After all repair work, the spray gun must be checked for safe condition before recommissioning. The necessary scope of inspection and testing depends on the repair carried out and must be documented by the repair personnel.

Assembly inspection	
Activity	Aid tools
1. Tightness check ▶ Connect 1 bar; 0.1 MPa; 14.50 psi and 8 bar; 0.8 MPa; 116 psi air pressure to the air connection and product connection. Place the spray gun completely into the water bath and check all sealing points for leaks with 1 bar; 0.1 MPa; 14.50 psi and 8 bar; 0.8 MPa; 116 psi. A slight leak can be tolerated at 1 bar; 0.1 MPa; 14.50 psi: 5 air bubbles per minute.	Air connection 1 bar / 8 bar Water bath
Injection and final inspection	
Activity	Aid tools
1. Trigger lever function test ▶ It must be possible to pull the trigger lever all the way to the stop. Make sure that the trigger lever can move slightly in its rest position. ▶ Position the trigger lever locking device in the safety position, adjust the air and product pressure and pull the trigger lever. Neither air nor product may leak or escape. ▶ Check that the trigger lever locking device is not reset by the trigger lever when pulled in the locking position.	Manual inspection
1. Tightness check ▶ Connect the spray gun, slowly increase the product pressure in increments using a suitable medium until the maximum pressure specified on the spring cap (250 bar; 25 MPa; 3625 psi or 160 bar; 16 MPa; 2320 psi) is reached. ▶ Trigger and flush the spray gun multiple times ▶ Check whether: ⇒ The product connection is sealed when the spray gun is closed. ⇒ The product valve is sealed. ⇒ Product does not discharge at the valve rod seal. If product leaks, tighten the sealing screw: The sealing screw on the valve rod must be tightened. Tighten the sealing screw with the open-end wrench if necessary. (In doing so, it is important to make sure that the valve rod still runs smoothly and the gun closes reliably).	Visual inspection The 160 bar variant is inspected at 160 bar. Product connection 250 bar or 160 bar atomising air 3 bar, size 7 mm open-end wrench for the sealing screw.

Activity	Aid tools
1. Checking the switching sequence ▶ Attach the AC nozzle and air cap. ▶ Set the spray pressure to 100 bar; 10 MPa; 1450.40 psi; pull the trigger slowly, note the switching sequence "Switch on" and "Switch off". Switch on: Atomising / shaping air on, product on Switch off: Product off, atomising / shaping air off	Visual inspection
1. Flush the spray gun ▶ Switch off the air supply and product supply, open the flushing valve, pull the trigger lever and flush the spray gun or blow it out with air. Rinse the spray gun without the nozzle and air cap. The air connection hose can be removed. ▶ Close the flushing valve when almost no more product comes out, remove the product connection hose and blow the rest of the test medium out of the spray gun using an air gun.	

12 DISPOSAL

When the devices must be scrapped, please differentiate the disposal of the waste materials.

The following materials have been used:

- Stainless steel
- Aluminium
- Elastomers
- Plastics
- Carbide

The consumable products (lacquers, adhesives, solvents) must be disposed of in accordance with the applicable specific standards.

13 ACCESSORIES

13.1 ROUND JET NOZZLE ATTACHMENT

Order no.	Description	
<u>394180</u>	Round jet nozzle attachment (without nozzle insert)	

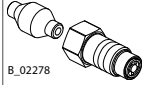
13.1.1 Nozzle inserts RXX

Order no.	Description	Marking	Volumetric flow rate*	Jet ø**	
<u>132720</u>	Nozzle insert, R11	11	0.16; 160	approx. 250; 9.84	
<u>132721</u>	Nozzle insert R12	12	0.22; 220	approx. 250; 9.84	
<u>132722</u>	Nozzle insert R13	13	0.27; 270	approx. 250; 9.84	
<u>132723</u>	Nozzle insert R14	14	0.34; 340	approx. 250; 9.84	
<u>132724</u>	Nozzle insert R15	15	0.38; 380	approx. 250; 9.84	
<u>132725</u>	Nozzle insert R16	16	0.43; 430	approx. 250; 9.84	
<u>132726</u>	Nozzle insert R17	17	0.48; 480	approx. 250; 9.84	
<u>132727</u>	Nozzle insert R18	18	0.53; 530	approx. 250; 9.84	
<u>132728</u>	Nozzle insert R19	19	0.59; 590	approx. 250; 9.84	
<u>132729</u>	Nozzle insert R20	20	0.65; 650	approx. 250; 9.84	
<u>132730</u>	Nozzle insert R21	21	0.71; 710	approx. 250; 9.84	
<u>132731</u>	Nozzle insert R22	22	0.77; 770	approx. 250; 9.84	

* Volumetric flow in l/min; cc/min water at 10 MPa; 100 bar; 1450 psi.

** Jet ø in mm at approx. 30 cm distance to the object and at a pressure of 10 MPa; 100 bar; 1450 psi, synthetic resin lacquer, 20 DIN4 seconds.

13.1.2 Nozzle screw joint, complete

Order no.	Description	
<u>132922</u>	Nozzle screw joint, complete	

13.2 AIRCOAT NOZZLES ACF3000

Article no. 379xxx In order to determine the article number of a nozzle, please select the number from the table and replace the three xxx.
Example: nozzle 411 = article number 379411



Size	Spray angle							Product filter * (Mesh)	Drilled hole Inch (mm)
	10°	20°	30°	40°	50°	60°	80°		
07	107	207		407				200	0.007 (0.18)
09		209	309	409	509	609		200	0.009 (0.23)
11	111	211	311	411	511	611	811	100, 150, 200	0.011 (0.28)
13	113	213	313	413	513	613	813	100, 150, 200	0.013 (0.33)
15	115	215	315	415	515	615	815	100	0.015 (0.38)
17		217	317	417	517	617	817	60, 100	0.017 (0.43)
19		219	319	419	519	619	819	50, 60, 100	0.019 (0.48)
21		221		421	521	621	821	50, 60	0.021 (0.53)
23				423		623	823	50, 60	0.023 (0.58)
25				425		625	825	50, 60	0.025 (0.64)
27				427		627	827	50, 60	0.027 (0.69)
29				429		629	829	50, 60	0.029 (0.75)
31				431		631	831	50, 60	0.031 (0.79)
35				435		635	835	50, 60	0.035 (0.90)
	55 (2.17)	100 (3.94)	145 (5.71)	195 (7.68)	250 (9.84)	300 (11.81)	400 (15.75)		
	Spray jet width $\varnothing$ in mm (inch) -Tested with 110 bar (1595 psi), 30 cm (11.81 inches) distance and lacquer 56DIN-4s								

* = Use filters/insert filters with the appropriate mesh size.

13.3 AIRCOAT PRE-ATOMIZER NOZZLES ACF3000 PLUS

Article no. 321xxx In order to determine the article number of a nozzle, please select the number from the table and replace the three xxx.
Example: nozzle 410 = article number 321410



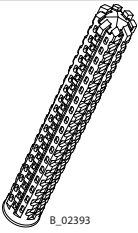
Size	Spray angle					Product filter * (Mesh)	Drilled hole Inch (mm)
	20°	30°	40°	50°	60°		
08	208	308	408	508		200	0.008 (0.20)
10	210	310	410	510	610	200	0.010 (0.25)
12	212	312	412	512	612	100, 150, 200	0.012 (0.30)
14	214	314	414	514	614	100, 150	0.014 (0.36)
16	216	316	416	516	616	100	0.016 (0.41)
18	218	318	418	518	618	60, 100	0.018 (0.46)
20		320	420		620	50, 60, 100	0.020 (0.51)
22			422		622	50, 60	0.022 (0.56)
	100 (3.94)	145 (5.71)	195 (7.68)	250 (9.84)	300 (11.81)		
	Spray jet width $\varnothing$ in mm (inch) -Tested with 110 bar (1595 psi), 30 cm (11.81 inches) distance and lacquer 56DIN-4s						

Special version (ACF 3000 plus nozzle, 32/80S)

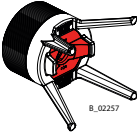
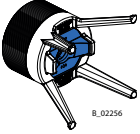
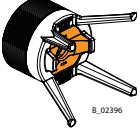
Marking	Spray angle	Order no.	Product filter * (Mesh)	Drilled hole Inch (mm)
32/80S	80°	<u>2452517</u>	60	0.032; (0.56)

* = Use filters/insert filters with the appropriate mesh size.

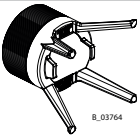
13.4 PUSH-IN FILTER

Order no.	Filter sizes	Mesh	Use for noz- zles	
<u>2440595</u>	Push-in filter, black (10 pieces)	300		
<u>2315723</u>	Push-in filter, red (10 pieces)	200	0.007"-0.01 1"	
<u>2315724</u>	Push-in filter, blue (10 pieces)	150	0.011"-0.01 3"	
<u>2315725</u>	Push-in filter, yellow (10 pieces)	100	0.013"-0.01 9"	
<u>2315726</u>	Push-in filter, white (10 pieces)	50	0.019"-0.02 3"	
<u>2315729</u>	Push-in filter, green (10 pieces)	30	0.019"-0.02 3"	

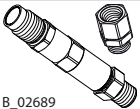
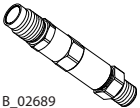
13.5 AIR CAPS

Order no.	Designation	
<u>2313494</u>	Air cap LV plus (red) for low viscosity products	 B_02257
<u>2313497</u>	Air cap HV plus (blue) for high viscosity products	 B_02256
<u>2313498</u>	Air cap LA plus (bronze) low air	 B_02396

13.6 ANODIZED UNION NUT

Order no.	Designation	
<u>2330340</u>	Completely anodized union nut (without air cap) suitable for processing water-based paints	 B_03764

13.7 SWIVEL JOINTS

Order no.	Designation	
<u>394933</u>	Swivel joint set for product (NPSM 1/4") and air hose connection (G1/4")	 B_02689
<u>394928</u>	Swivel joint for product connection (NPSM 1/4")	 B_02689
<u>364938</u>	Swivel joint for air connection G1/4"	 B_02687

13.8 HOSES

Order no.	Designation
<u>2309705</u>	AC hose set DN3 PN270 1/4"NPS 7.5 m PA T Product: 1/4"NPS, 7.5 m; 24.6 ft, DN 3; ID 0.12 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 7.5 m; 24.6 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
<u>2309706</u>	AC hose set DN4 PN270 1/4"NPS 7.5 m PA T Product: 1/4"NPS, 7.5 m; 24.6 ft, DN 4; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 7.5 m; 24.6 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
<u>2312801</u>	AC hose set DN4 PN270 1/4"NPS 10.0 m PA T Product: 1/4"NPS, 10 m; 32.8 ft, DN 4; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 10 m; 32.8 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
<u>2309634</u>	AC hose set DN4 PN270 1/4"NPS 15.0 m PA T Product: 1/4"NPS, 15 m; 49.2 ft, DN 4; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 15 m; 49.2 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
<u>2309635</u>	AC hose set DN4 PN270 1/4"NPS 20.0 m PA T Product: 1/4"NPS, 20 m; 65.6 ft, DN 4; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 20 m; 65.6 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
<u>2322656</u>	AC hose set DN3 PN270 1/4"NPS 3.0 m PA T Product: 1/4"NPS, 3 m; 9.84 ft, DN 3; ID 0.12 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 3 m; 9.84 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
<u>9987136</u>	Protective hose, per meter

All AC hose sets consist of a section each of product, air and protective hose.

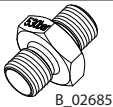
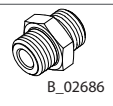
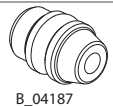
13.9 GM 4700AC-H HOSE SETS

Use hose sets with sufficient pressure load (35 MPa; 5076 psi; 350 bar).

13.10 NOZZLE EXTENSIONS

Order no.	Filter sizes	
<u>394090</u>	Nozzle extension AC 300	
<u>394091</u>	Nozzle extension AC 600	

13.11 MISCELLANEOUS

Order no.	Designation	
<u>9997001</u>	Nozzle cleaning brush	
<u>394940</u>	Service set GM 4700AC	
<u>367560</u>	Double connector NPSM1/4" (external thread), for product hose extension	 B_02685
<u>9985720</u>	Double nipple G1/4" (external thread), for air hose extension	 B_02686
<u>2324747</u>	Sealing collar UHMW-PE, complete, suitable for 2K-PU lacquers	 B_04187

14 SPARE PARTS

14.1 HOW TO ORDER SPARE PARTS

Always supply the following information to ensure delivery of the right spare part:

Order number, designation and quantity

The quantity need not be the same as the number given in the quantity column "Stk" on the list. This number merely indicates how many of the respective parts are used in each component.

The following information is also required to ensure smooth processing of your order:

- Billing address
- Delivery address
- Name of the person to be contacted in the event of any queries
- Type of delivery (normal mail, express delivery, air freight, courier etc.)

Identification in spare parts lists

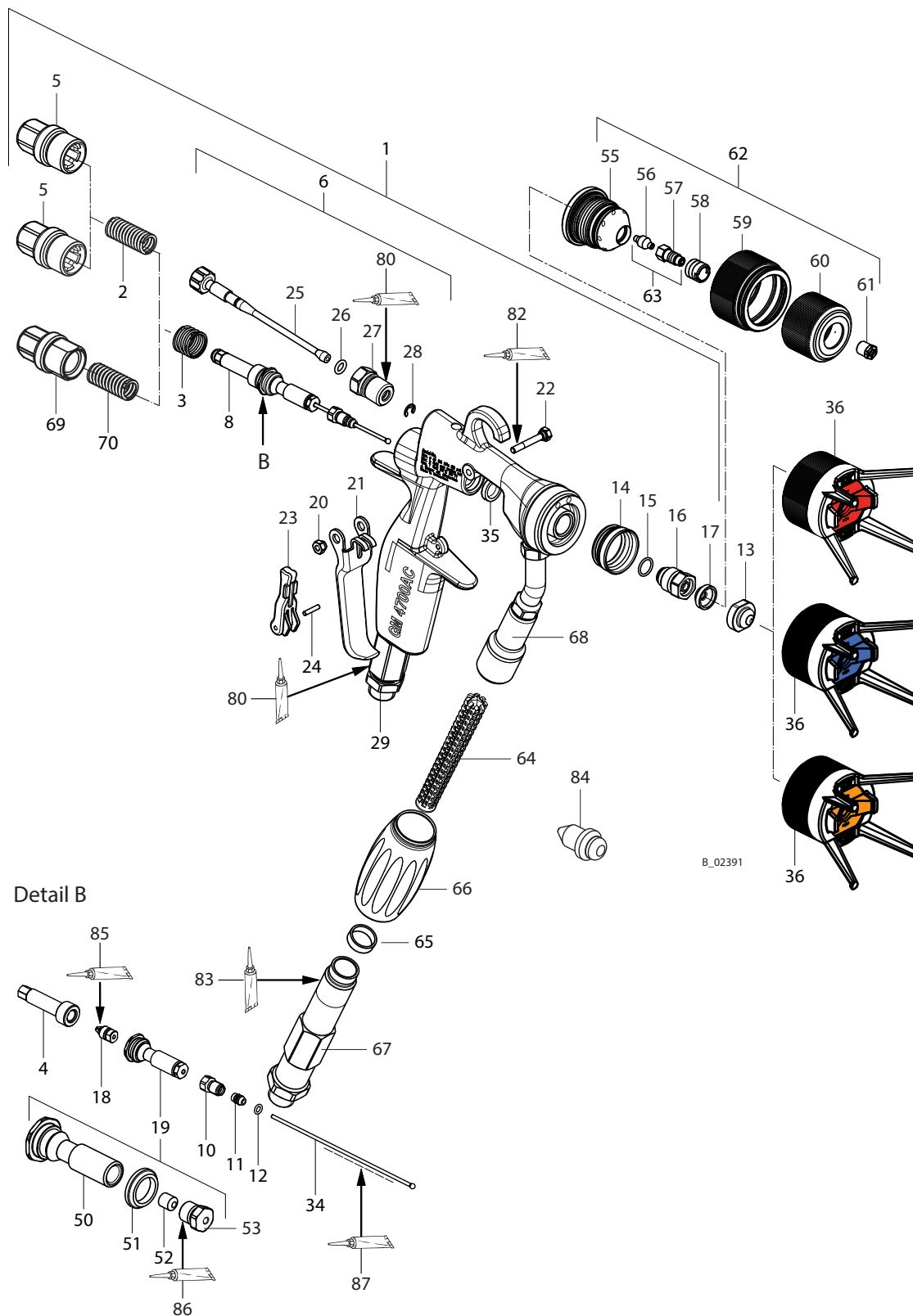
Explanation of column "K" (marking) in the following spare parts lists:

- ♦ Wearing parts. Wearing parts are not included in the warranty.
- ★ Included in service set
- Not part of the standard equipment but available as a special accessory

Explanation of order no. column:

- Item not available as spare part.
- / Position does not exist.

14.2 SPARE PARTS LIST GM 4700AC



Pos	K	Stk	Order no.	Description
1		1	<u>2313585</u>	GM 4700AC 25 MPa NPSM1/4"
2		1	<u>9999501</u>	Helical spring, material
3		1	<u>9999500</u>	Helical spring, air
4		1	<u>2312140</u>	Clamping sleeve
5		1	<u>394335</u>	Spring cap 16 MPa; 160 bar; 2320 psi
			<u>394333</u>	Spring cap 25 MPa; 250 bar; 3625 psi
6	◆	1	<u>394924</u>	Air tappet, complete
8	◆	1	<u>2311320</u>	Valve rod unit, complete
10		1	<u>394327</u>	Sealing screw
11	◆ ★	1	<u>394328</u>	Sealing collar
	◆ ●		<u>2324747</u>	Sealing collar UHMW-PE, complete (including pos. 12)
12	◆ ★	1	<u>9971445</u>	O-ring
13	◆ ●	1	379xxx	AC nozzle (see chapter AirCoat nozzles ACF3000 [►► 52])
			321xxx	AC nozzle plus (see chapter AirCoat pre-atomizer nozzles ACF3000 Plus [►► 52])
14	◆ ★	1	<u>394339</u>	Sealing ring
15	◆	1	<u>9974245</u>	O-ring
16	◆ ★	1	<u>394922</u>	Valve housing, complete
17	◆ ★	1	<u>394338</u>	Nozzle seal
18		1	<u>2312149</u>	Collet chuck
19		1	<u>394257</u>	Valve tappet, complete
20		1	<u>394318</u>	Nut
21		1	<u>394601</u>	Trigger
22		1	<u>394319</u>	Screw
23		1	<u>394334</u>	Safety clip
24		1	<u>9935088</u>	Parallel pin
25		1	<u>394313</u>	Air tappet
26	◆ ★	1	<u>9974243</u>	O-ring
27		1	<u>394303</u>	Mounting bracket
28	◆ ★	1	<u>9921906</u>	Lock washer
29		1	<u>2324766</u>	Air swivel, complete
34	◆ ★	1	<u>394920</u>	Valve rod, complete
35	◆ ★	1	<u>394323</u>	Rod seal
36	◆ ●	1	<u>2313494</u>	Air cap LV plus (red)
			<u>2313497</u>	Air cap HV plus (blue)
			<u>2313498</u>	Air cap LA plus (bronze)
50		1	<u>394309</u>	Valve tappet
51	◆ ★	1	<u>179338</u>	Air valve seal
52	◆ ★	1	<u>179395</u>	Gasket
53	◆ ★	1	<u>394322</u>	Cap
55	●	1	<u>394336</u>	Nozzle body
56	◆ ●	1	<u>128327</u>	Sealing fitting

Pos	K	Stk	Order no.	Description
57	◆ ●	1	<u>132516</u>	Nozzle screw joint, complete
58	●	1	<u>132351</u>	Nozzle screwed connection holder
59	●	1	<u>394308</u>	Union nut
60	●	1	<u>394337</u>	Nozzle nut
61	◆ ●	1	132...	Nozzle insert R (various dimensions see chapter Nozzle inserts RXX [►► 51])
62	●	1	<u>394180</u>	Round jet nozzle attachment (see chapter Round jet nozzle attachment [►► 51])
63	◆ ●	1	<u>132922</u>	Nozzle screw joint, complete
64	◆	1	--	Filter insert, yellow (middle), 100 mesh per inch
	◆ ●		<u>2315723</u>	Filter insert, red (fine), 200 mesh per inch, 10 pieces
	◆ ●		<u>2315724</u>	Filter insert, blue (middle), 150 mesh per inch, 10 pieces
	◆ ●		<u>2315725</u>	Filter insert, yellow (middle), 100 mesh per inch, 10 pieces
	◆ ●		<u>2315726</u>	Filter insert, white (coarse), 50 mesh per inch, 10 pieces
	◆ ●		<u>2315729</u>	Filter insert, green (coarse), 30 mesh per inch, 10 pieces
65	◆ ★	1	<u>128389</u>	Gasket
66	◆	1	<u>2311491</u>	Turning handle
67		1	<u>2320016</u>	Filter housing, complete
68		1	<u>2320114</u>	Filter connection GM 4700AC, complete
69	●	1	<u>2352651</u>	Spring cap 35 MPa; 350 bar; 5076 psi
70	★ ●	1	--	Pressure spring for spring cap 35 MPa; 350 bar; 5076 psi
	●	1	<u>394941</u>	Service set GM 4600/4700AC

Assembly aids

Pos	K	Stk	Order no.	Description
80	●		<u>9992831</u>	Loctite® 542
81	●		<u>9992833</u>	Loctite® 638, green
82	●		<u>9992590</u>	Loctite® 222
83	●		<u>9992609</u>	Anti-seize paste
84	★ ●		<u>394342</u>	Tool valve rod seal
85	●			Molykote® DX grease
86	●		<u>9992528</u>	Loctite® 270
87	●		<u>9992698</u>	Vaseline white, PHHV II
88	●		<u>2445414</u>	Assembly tool for air valve seal

◆ = wearing parts

★ = included in service set

● = not part of the standard equipment but available as a special accessory

[illegible]

Pos	K	Stk	Order no.	Description
1		1	<u>2315700</u>	GM 4700AC-H, 35 MPa NPSM1/4"
2		1	<u>9999501</u>	Helical spring, material
3		1	<u>9999500</u>	Helical spring, air
4		1	<u>2312140</u>	Clamping sleeve
5		1	<u>394333</u>	Spring cap 25 MPa; 250 bar; 3625 psi
6	◆	1	<u>394924</u>	Air tappet, complete
8	◆	1	<u>2311320</u>	Valve rod unit, complete
10		1	<u>394327</u>	Sealing screw
11	◆ ★	1	<u>394328</u>	Sealing collar
	◆ ●		<u>2324747</u>	Sealing collar UHMW-PE, complete (including pos. 12)
12	◆ ★	1	<u>9971445</u>	O-ring
13	◆ ●	1	379xxx	AC nozzle (see chapter AirCoat nozzles ACF3000 [►► 52])
			321xxx	AC nozzle plus (see chapter AirCoat pre-atomizer nozzles ACF3000 Plus [►► 52])
14	◆ ★	1	<u>394339</u>	Sealing ring
15	◆	1	<u>9974245</u>	O-ring
16	◆ ★	1	<u>394922</u>	Valve housing, complete
17	◆ ★	1	<u>394338</u>	Nozzle seal
18		1	<u>2312149</u>	Collet chuck
19		1	<u>394257</u>	Valve tappet, complete
20		1	<u>394318</u>	Nut
21		1	<u>394601</u>	Trigger
22		1	<u>394319</u>	Screw
23		1	<u>394334</u>	Safety clip
24		1	<u>9935088</u>	Parallel pin
25		1	<u>394313</u>	Air tappet
26	◆ ★	1	<u>9974243</u>	O-ring
27		1	<u>394303</u>	Mounting bracket
28	◆ ★	1	<u>9921906</u>	Lock washer
29		1	<u>2324766</u>	Air swivel, complete
34	◆ ★	1	<u>394920</u>	Valve rod, complete
35	◆ ★	1	<u>394323</u>	Rod seal
36	◆ ●	1	<u>2313494</u>	Air cap LV plus (red)
			<u>2313497</u>	Air cap HV plus (blue)
			<u>2313498</u>	Air cap LA plus (bronze)
50		1	<u>394309</u>	Valve tappet
51	◆ ★	1	<u>179338</u>	Air valve seal
52	◆ ★	1	<u>179395</u>	Gasket
53	◆ ★	1	<u>394322</u>	Cap
55	●	1	<u>394336</u>	Nozzle body
56	◆ ●	1	<u>128327</u>	Sealing fitting
57	◆ ●	1	<u>132516</u>	Nozzle screw joint, complete

Pos	K	Stk	Order no.	Description
58	●	1	<u>132351</u>	Nozzle screwed connection holder
59	●	1	<u>394308</u>	Union nut
60	●	1	<u>394337</u>	Nozzle nut
61	◆ ●	1	132...	Nozzle insert R (various dimensions see chapter Nozzle inserts RXX [►► 51])
62	●	1	<u>394180</u>	Round jet nozzle attachment (see chapter Round jet nozzle attachment [►► 51])
63	◆ ●	1	<u>132922</u>	Nozzle screw joint, complete
64	◆	1	--	Filter insert, yellow (middle), 100 mesh per inch
	◆ ●		<u>2315723</u>	Filter insert, red (fine), 200 mesh per inch, 10 pieces
	◆ ●		<u>2315724</u>	Filter insert, blue (middle), 150 mesh per inch, 10 pieces
	◆ ●		<u>2315725</u>	Filter insert, yellow (middle), 100 mesh per inch, 10 pieces
	◆ ●		<u>2315726</u>	Filter insert, white (coarse), 50 mesh per inch, 10 pieces
	◆ ●		<u>2315729</u>	Filter insert, green (coarse), 30 mesh per inch, 10 pieces
65	◆ ★	1	<u>128389</u>	Gasket
66	◆	1	<u>2311491</u>	Turning handle
67		1	<u>2320016</u>	Filter housing, complete
68		1	<u>2467826</u>	Filter connection, complete, GM 4700AC-H ET
71	●	1	<u>2352651</u>	Spring cap 35 MPa; 350 bar; 5076 psi
72	★ ●	1	--	Pressure spring for spring cap 35 MPa; 350 bar; 5076 psi
	●	1	<u>394941</u>	Service set GM 4600/4700AC

Assembly aids

Pos	K	Stk	Order no.	Description
80	●		<u>9992831</u>	Loctite® 542
81	●		<u>9992833</u>	Loctite® 638, green
82	●		<u>9992590</u>	Loctite® 222
83	●		<u>9992609</u>	Anti-seize paste
84	★ ●		<u>394342</u>	Tool valve rod seal
85	●			Molykote® DX grease
86	●		<u>9992528</u>	Loctite® 270
87	●		<u>9992698</u>	Vaseline white, PHHV II
88	●		<u>2445414</u>	Assembly tool for air valve seal

◆ = wearing parts

★ = included in service set

● = not part of the standard equipment but available as a special accessory

15 DECLARATION OF CONFORMITY

15.1 UK DECLARATION OF CONFORMITY

Herewith we declare that the supplied version of:

GM 4700AC

GM 4700AC-H

complies with the following provisions:

S.I. 2008/1597
S.I. 2016/1107

Applied standards, in particular:

BS EN ISO 12100:2010	BS EN 1127-1:2019
BS EN 1953:2013	BS EN ISO 80079-36:2016
BS EN ISO 13732-1:2008	
BS EN 14462:2015	

Identification:  II 2 G T6 X

UK Declaration of Conformity

The UK Declaration of Conformity is enclosed with this product. If needed, further copies can be ordered through your WAGNER dealer by specifying the product name and serial number.

Order number: 2316429





Order number 2439563
Edition 02/2025

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