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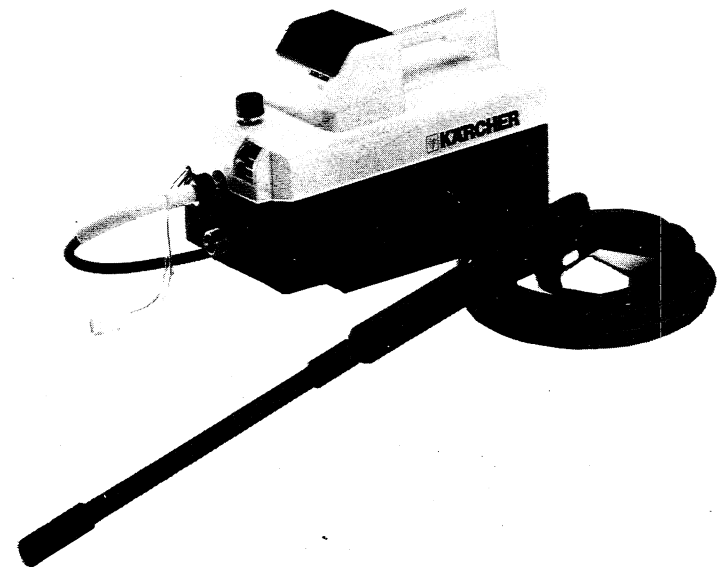
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## Operating Instructions

# KÄRCHER 580

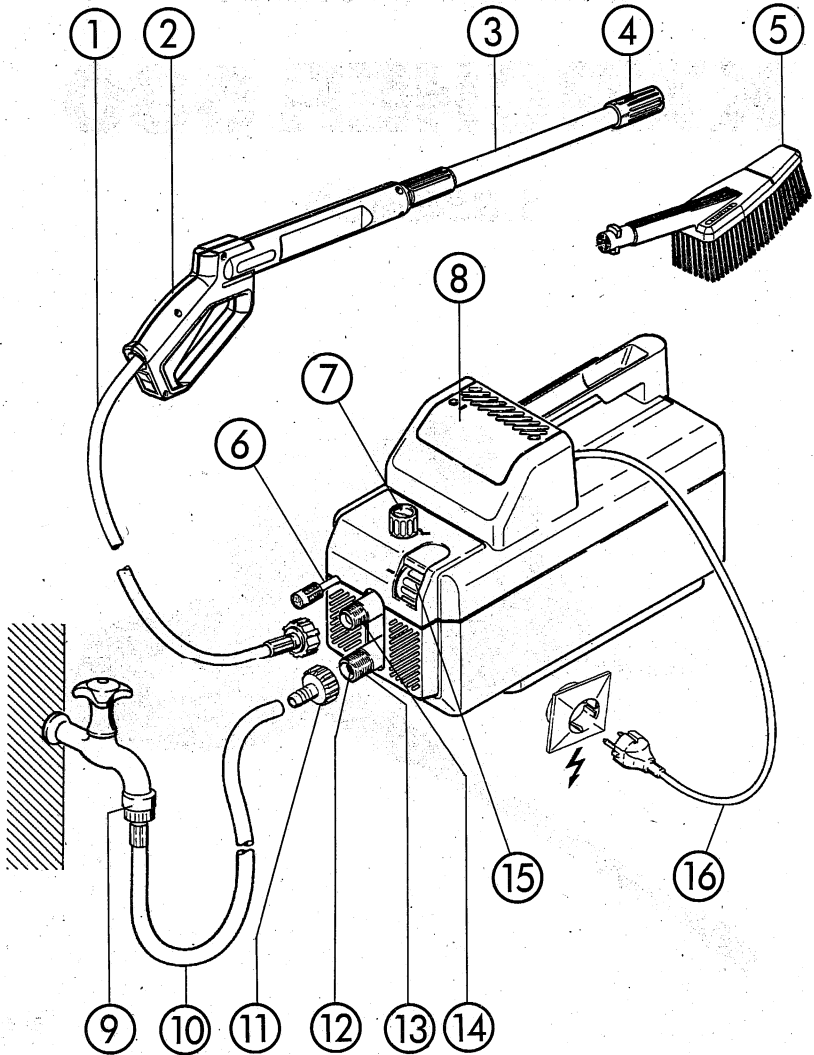
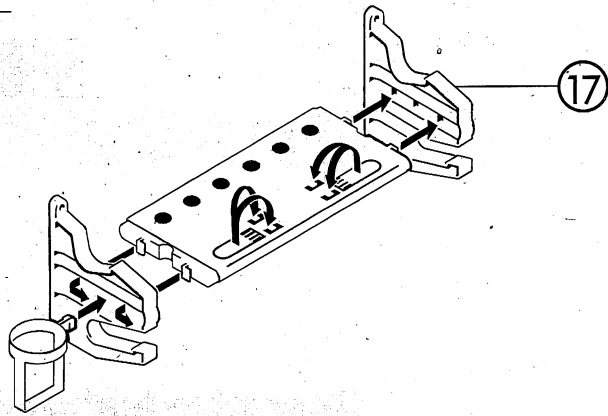
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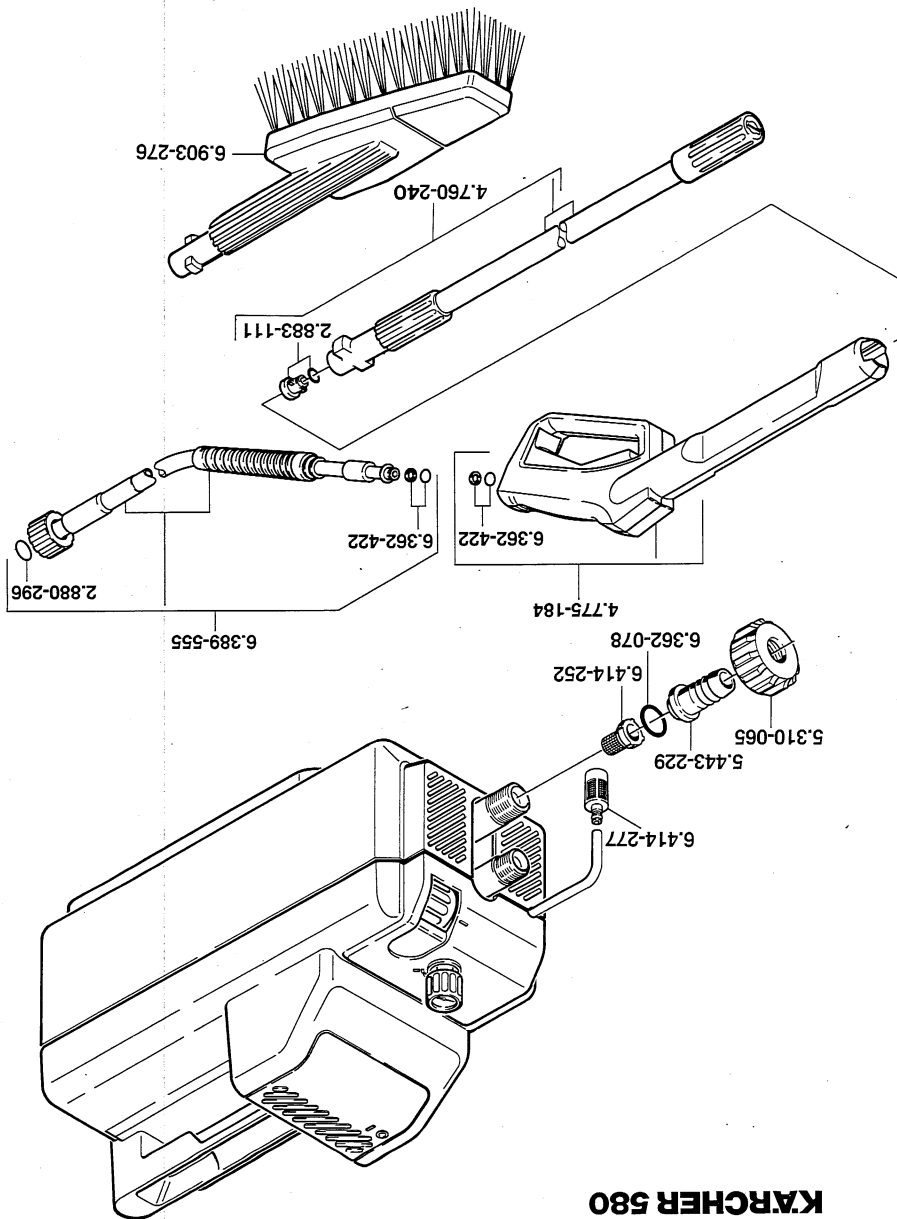


**No. Designation**

- 1 High-pressure hose
- 2 Trigger gun
- 3 Spray lance
- 4 Changeover nozzle
- 5 Washing brush
- 6 Cleaning agent suction hose with filter
- 7 Pressure gauge + Pressure and flow regulation
- 8 Switch
- 9 Backflow preventer \*
- 10 Water hose \*
- 11 Coupling
- 12 Strainer
- 13 Water connection
- 14 High-pressure connection
- 15 Cleaning agent metering valve
- 16 Plug
- 17 Wall-bracket

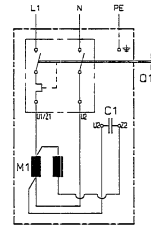
\* not contained in scope of delivery





## I. Technical data

Voltage	V	240 (1~ 50 Hz)
Length / width / height	mm	400 / 179 / 257
Weight not including accessories	kg	14
Connected load	kW	2,0
Drive power	kW	1,35
Capacity	l/h	150–540
Working pressure	bar	10–90
Permissible gauge pressure (operation)	bar	110
Water supply temperature	°C	max. 60
Cleaning agent intake	l/h	0–25
Suction height with cold water (10° C)	m	1
Nozzle recoil (high-pressure jet) (Spray lance 4.760-240)	Newton	18



**Circuit diagram**

C1 Running capacitor  
M1 Motor  
Q1 Motor circuit breaker

## II. Important notes

Before putting into service, please observe the following points:

1. – If, while unpacking the device, you discover that it has become damaged during transport, please notify your dealer or your Kärcher sales office.

### 2. Electrical connection

- The voltage specified on the rating plate must agree with the mains supply voltage.
- The power socket used should be protected by a at least **10 A delayed action fuse**.

**WARNING: THIS APPLIANCE MUST BE EARTHED.**

#### Important:

- When an extension cable is used, this must always be unwound fully from the cable drum, in order to avoid the possibility of malfunction and of a short circuit occurring as a result of the cable overheating in the event of voltage drop. Observe carefully: Wire cross-section for length up to 10 m:  $3 \times 1.5 \text{ mm}^2$ ; for length up to 30 m:  $3 \times 2.5 \text{ mm}^2$ .
- All electrically-live components, e.g. equipment, cables, power sockets etc. **must** be protected against water splashes, to avoid the possibility of short circuiting.
- The wires in this mains lead are coloured in accordance with the following code:  
Green-and-yellow: Earth; Blue: Neutral; Brown: Live
- Before connecting the cleaner, examine the cable for damage – a damaged cable should never be used.
- Only original supply cords as supplied by KÄRCHER, order No. 6.641-592 can be used on this machine.

**Cable and plug must not be subjected to undue stress by pulling on the supply cord or on the machine.**

**Attention:** It is strongly recommended that the electric supply to this equipment should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30 ms or an earth proving circuit. In case of repair of supply cord make sure that this is done by a qualified electrician and comply with the ruling of the latest edition of IEE wiring regulations.

- Additional protection for the user can be provided by fitting an earth leakage circuit breaker in the power supply circuit. A residual-current breaker with  $I_{\Delta n} = 30 \text{ mA}$  should be used, particularly when the machine is used close to garden ponds, swimming pools and similar.

### 3. Water supply

- The water hose (10) must be at least 7,5 m long and have a diameter of at least  $1/2"$ .
- The flow rate of the water supply must not fall below 10 l/min.
- The temperature of the water supply must **not** exceed 60 °C.
- Dirt in the feed water could lead to the unit being damaged. To avoid this risk, we recommend fitting a filter. A suitable filter with a  $3/8"$  connection is available under Order No. 6.414-389.

#### WARNING:

**HIGH PRESSURE JETS CAN BE DANGEROUS IF SUBJECT TO MISUSE. THE JET MUST NOT BE DIRECTED AT PERSONS, ANIMALS, LIVE ELECTRICAL EQUIPMENT OR THE MACHINE ITSELF. THIS MACHINE HAS BEEN DESIGNED FOR USE WITH CLEANING AGENTS SUPPLIED OR RECOMMENDED BY THE MANUFACTURER. THE USE OF OTHER CLEANING AGENTS OR CHEMICALS MAY AFFECT ITS SAFETY.**

#### Important:

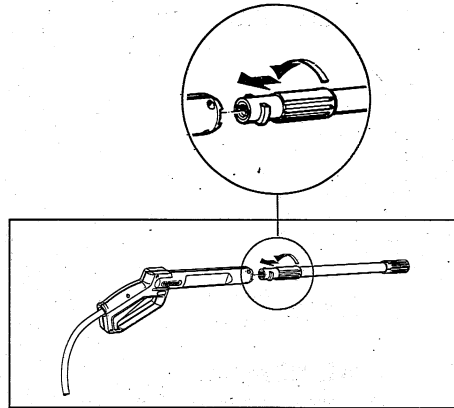
- Never use the device to suck in liquids containing solvents, e.g. paint thinners, petrol, oil, etc. or unfiltered water. The seals in the cleaner are not resistant to solvents. When solvents are sprayed the fine mist is highly flammable, explosive and poisonous. Grit particles in unfiltered water could damage both the cleaner and the object being cleaned.
- Observe the regulations of your water supply company.
- Minimum clearance of ventilating openings from wall: 50 mm.

## III. Operation

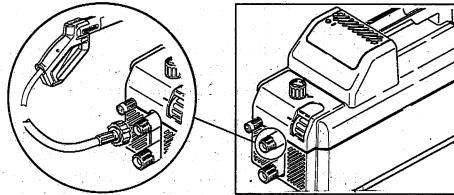
### 1. Commissioning

Operating sequenz should be held.

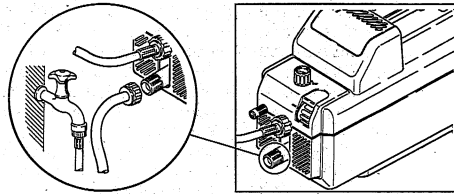
- Press the spray lance (3) into the trigger gun (2) against the spring tension and turn it as far as the stop.
- The spray lance must lock into position.



- Screw the high-pressure hose (1) to the high-pressure connector (14).



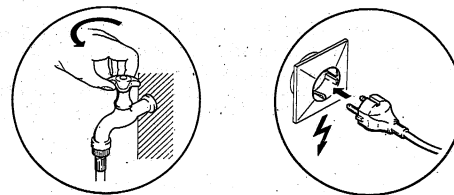
- Connect the water hose (10) to the connector (13) and to the water tap.



#### Suction operation

- Water supply can also be effected from an open tank.
- Connect the cold-water suction hose with filter (4.440-238) to the connector (13).
- Suspend the filter in the water tank.

- Turn the water tap on full.



- Connect the plug (16) to the power socket.

### 3. Cleaning changeover nozzle

- Disconnect the spray lance (3) from the hand spray gun (2).
- Remove dirt from nozzle bore with needle and rinse with water from nozzle end.

### 4. Cleaning the strainer

- The strainer (12) in the water inlet (13) should be cleaned from time to time as necessary.

### 5. Spare parts

The use of other than Kärcher original spare parts could lead to faults arising and even to serious accidents if such parts are not properly made, if they do not exactly replace the original part or if they lead to unreliable operation, so always use Kärcher original spare parts.

### 6. Accessories

Incorrect or unsuitable accessories could affect the function of your Kärcher cleaner. The use of such accessories is dangerous and so you should ask us or your dealer for details of matching and tested Kärcher accessories that are made to measure for your cleaner.

## VII. Trouble-shooting

Fault	Cause	Remedy
1. Device will not start	1. No electrical power supply available	Check cable, plug, power socket and fuse
	2. Motor overheats	The machine can be switched back on after a few minutes by pressing the switch (8) a second time.
	3. Electrical defect	Have device repaired by customer service
2. Device does not come up to pressure	1. Pump is suck-in air	Check water hose, turn on water supply
	2. Water filter clogged	Clean filter
	3. Pump not bled to remove air	Switch off device, press lever of hand spray gun, switch on device while pressing hand spray gun; repeat if necessary
	4. Pump or relief valve defective	Have device repaired by customer service
3. Water jet irregular	1. Nozzle clogged	Clean nozzle (see VI. 3)
	2. Water supply inadequate	Use device in suction operation with open container
	3. Relief valve incorrectly set	Have device repaired by customer service
4. No intake of cleaning agent	1. Suction filter clogged	Clean filter in suction nozzle
	2. Variable nozzle clogged	Clean nozzle (see VI. 3)

#### The Kärcher Warranty

The conditions of warranty issued by a national Kärcher company are valid in the country concerned. We undertake to repair defective Kärcher products at no charge, insofar as the malfunction is caused by a material defect or a defect in manufacture.

If you wish to lodge a claim under the conditions of warranty, please submit all particulars to the dealer from whom you purchased the machine, or to your nearest Kärcher representative. Please always return the defective unit with its accessories and proof of purchase or just the defective accessory with proof of purchase.

## IV. Application

The cleaner can be used for cleaning

- Vehicles (cars, motorcycles, caravans, boats, etc.)
- House (facades, roller shutters, garden walls, terraces, stairways, roofs, etc.)
- Garden (garden equipment, grills, swimming pools, etc.)

With Kärcher special accessories it can also be used for such jobs as removing rust and paint, for cleaning pipes, for pumping water and for applying plant protection chemicals.

### Cleaning method

1st step: Spray on the cleaning agent (see III. 4.) and allow it to work in.

2nd step: Wash off the dirt with the high-pressure jet (without cleaning agent) and finish off by brushing.

### Recommended cleaning procedure:

The high-pressure jet should first be applied from an appreciable distance in order to avoid damaging the object being cleaned.

The pressure and flow control valve (7) for the water and the cleaning agent dosing valve (15) facilitate fine dosage adjustments to suit any cleaning task. With correct adjustment you save water and cleaning agent and thus protect the environment.

**Tip:** Clean facades, terraces and garden equipment with the high-pressure jet alone, without cleaning agent.  
– For stubborn dirt (such as moss) we recommend using the Kärcher dirt scraper that is available as an accessory.

**Note:** Cleaning engines is only permissible in positions where a suitable oil separator is provided.

When cleaning car tyres, the nozzle should be held **at least 30 cm away**

If not used correctly, a high-pressure jet could damage the tyre. The first indication that such damage has occurred is a discolouration of the tyre. If a tyre has been cleaned with the nozzle held less than 20 cm away or if the high-pressure nozzle has been applied directly to the tyre, then the tyre must be examined carefully for damage. In case of doubt it should be examined by a specialist.

## V. Cleaning agents

### Important information

Only such chemicals should be used as are approved by the manufacturer of the cleaner concerned and so we recommend that only the Kärcher cleaning agents be used and we draw particular attention to the fact that the use of other, unsuitable cleaning agents may lead to damage both to the high-pressure cleaner and to the object to be cleaned.

Designation	Recommended concentration for normal contamination	Order No.
<b>profi RM 555</b> , liquid (cleaning of cars, motorbikes, caravans, lawnmovers, sensitive surfaces, facades)	2%	6.291-080 (5 l)
<b>RM 1000</b> , liquid (underbody car wash, swimming pool, shower, sauna, venetian blinds, garage doors)	1%	6.291-999 (10 l)

**Accessories, special accessories and cleaning agents can be obtained from your dealer.**

## VI. Service and maintenance

Before carrying out maintenance work, disconnect the plug from the electrical power supply, and shut off the water supply.

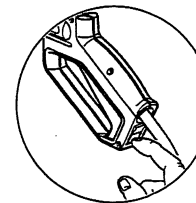
### 1. Protection against frost

The device and the accessories (trigger gun, spray lance, high-pressure hose) must be stored in such a way as to protect it from frost.

### 2. High-pressure hose

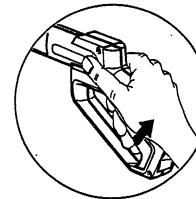
The high-pressure hose must conform to safety regulations, and must be marked with the maximum permissible operating pressure, the date of manufacture and the name of the manufacturer.  
Kärcher high-pressure hoses meet these requirements.

- Release the safety detent of the hand spray gun (2).

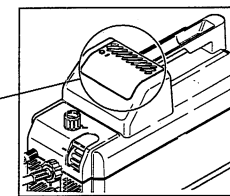
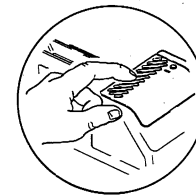


- Press the lever of the spray gun.

**Attention:** Open jet pistol, before switching on the machine. The water jet causes the spray lance to recoil so the lance and the trigger gun should be held firmly.



- Switch on the device.



## Safety measures

- **Never** direct the water jet towards any person (risk of injury as a result of the high pressure and of irritation to the skin and mucous membranes from the chemical used).
- **Never** direct the water jet directly towards the cleaner (risk of short-circuits and other damage) or any other electrical equipment.
- Children or adolescents must be allowed to use the high-pressure cleaner only under supervision.
- In the event of a lengthy break (more than 15 minutes) switch off device to prevent damage caused by overheating.
- Do not work with the high-pressure cleaner when under the influence of alcohol.

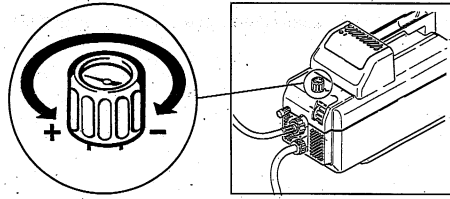


### Safety feature

When the lever of the hand spray gun is released, the relief valve opens and thus the water is returned to the suction side of the pump and is recirculated. The overflow valve thus also serves as a safety valve to prevent the maximum permissible working pressure being exceeded. **Because of its function as a safety device, no modifications may be made to this overflow valve.**

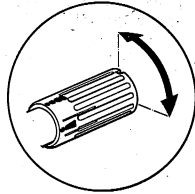
## 2. Flow regulation

- The water flow and pressure can be steplessly adjusted by turning the control knob (7).
- Turning clockwise: less water and lower pressure.
- Turning counterclockwise: more water and higher pressure.



## 3. Changeover nozzle

It is possible with the changeover nozzle (4) to work with a high pressure or low pressure jet. Changing the jet form is only possible with the trigger gun closed. When working with cleaning agent you must use the low pressure jet, this is achieved by rotating the guard at the changeover nozzle to "Low pressure". The symbol of the chosen jet form is on the upper side of the changeover nozzle.

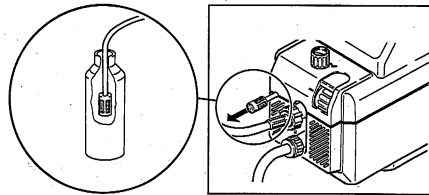


### Symbols for the changeover nozzle:

- High pressure
- Low pressure

## 4. Spraying cleaning agent

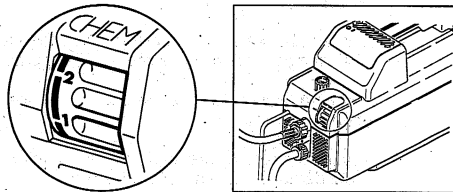
- Use cleaning agent in accordance with usage instructions (see V.).
- Suspend cleaning agent suction hose with filter (6) in cleaning agent.



- Set changeover nozzle (4) to "Low pressure".
- The cleaning agent intake can be adjusted by turning the cleaning agent metering valve (15).

Valve setting	1	2	3	4
Chemical intake (l/h)	2-6	6-12	12-19	19-25
Cleaning agent in jet (%)	0,4-1,1	1,1-2,2	2,2-3,5	3,5-4,6

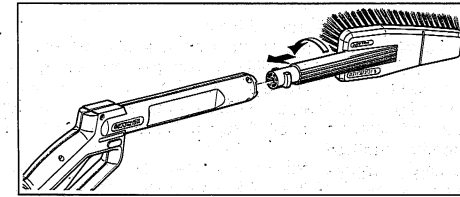
Valve settings "3" and "4" should only be used when there is very heavy contamination.



- Following completion of cleaning, suspend cleaning agent suction hose (6) in a container full of "clean" water and flush device.

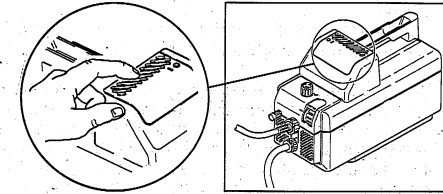
## 5. Attachment of washing brush

- Press the washing brush (5) into the trigger gun (2) against the spring tension and turn it to the stop. The spray lance must lock into position.
- The washing brush can only withstand 40 °C water temperature.

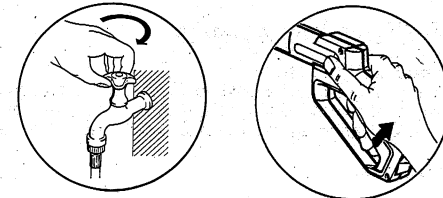


## 6. After use

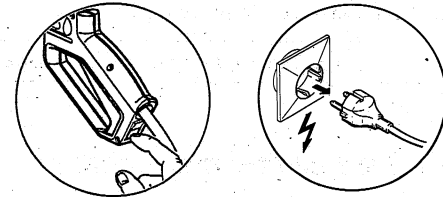
- Flush device after spraying cleaning agent.
- Switch off device.
- Shut off water supply from tap.



- Squeeze trigger of gun until no further water emerges.



- Release trigger and secure with catch.



- Remove plug from socket.