

Operating Manual
for
Sprayguns of series W 7

(W 7 A-N ; W 7 B-N ; W 7 K-N ; W 7 S-N)

Read this manual carefully before installing, operating or servicing this spraygun. Keep always handy for further use.

ALFRED SCHÜTZE Apparatebau GmbH
- Spraytechnology -
Hannoversche Str. 69 - 71, 28309 Bremen ; P.O.Box 44 86 48, 28286 Bremen-Germany
Tel.: (0421) 43 51 00 ; Fax: (0421) 43 51 0-43

1 Safety

1.1 Duties of the user

- The user must read this user and service manual carefully before performing any operations.
- Application and service operations should not be carried out if the user is not absolutely sure of the purpose and consequence of the operations.

1.2 Warning against Danger

This operating manual warns users of operations which may put their health at risk. The warnings are indicated by combinations of text and symbols corresponding to the different danger classes.

WARNING!

Signs a possible dangerous situation. If you don't avoid, death or strong wounding can follow.

CAUTION!

Indicates a situation which may be dangerous. Failure to heed the caution may result in personal injury. This indication is also used where material damage is possible.

IMPORTANT!

Indicates tips for usage and other helpful information.

1.3 Definitive Use

The spraygun W 7 is a high performance spraygun; it is suitable for sprayable materials. It is not suitable for spraying aggressive materials. In case of doubt, contact the manufacturer.



WARNING!

Do not use any solvents, cleaning liquids or coating materials containing 1,1,1 Trichlormethane or Methylene Chloride i.e. agents of the group of hydrocarbons. These chemicals may react with aluminium, anodized or zinc parts. The chemical reaction may be explosive.

2 Function Description

To spray with a spraygun a definite volume of air and a definite pressure is needed.

The needle will be opened by activating the trigger and the material flows out of the cup into the nozzle. The air pressure atomizes the material and forms it to a jet. The jet can be made wider or rounder continuously using the jet regulator (27.1.0).

The needle function is:

Opened by trigger and closing by spring force.

3 Environmental Conditions

Do not smoke when spraying paints or solvents which have combustible properties. All electrical installations within the spraying area must be explosionproof. Observe working safety regulations in respect of protective clothing (masks, clothing, ear protection, etc.).

4 Before Starting

- Before connecting the pressure hose to the spraygun, ensure that all the connection screws are tight.
- Fill up the cap with the spraying material and close the lid.
- Follow the application notes of the spraying material manufacturer.

5 Operating Information



CAUTION!

Never point the spraygun against persons. Wearing eye protecting is strongly recommend. Spraying procedures cause noises depending on the used pressure. If necessary, wearing of ear protecting is recommend.

5.1 Spraying

The spraying procedure is started by pulling the trigger (19.1.0). Pull the trigger back and you will feel a pressure point which provides pre-air. Pull the trigger further back to start spraying. You should begin the swinging arm movements, necessary for spraying, before the material is actually sprayed, holding the gun vertically or parallel to the surface to be sprayed.

5.2 Fluid Volume Regulation

Adjust the volume of fluid by turning the regulating cap (11.1.1).

5.3 Spray Pattern Regulation

Turn the jet regulator (27.1.0) to adjust the spray pattern. Turn anti-clockwise for a wider jet spray and clockwise for a rounder spray. The adjustment is continuous, not in steps.

6 Repair and Maintenance

Before starting maintenance or repair work, ensure that all air operated tools are disconnected from the air supply.



WARNING!

Before opening the spraygun it has to be disconnected from the air supply. Otherwise ejected elements can cause danger.

We recommend lubricating moveable parts regularly, and greasing threads, especially the nozzle threads, when replacing the nozzle or cleaning.

The spraygun should be cleaned using an appropriate thinner. Daily rinsing ensures all spray residue is cleared from parts and channels which come into contact with the spray material. Never immerse the entire gun in a bath of thinner because this dissolves greases. To clean small drill hoses, use our special nozzle cleaning needles.

7 Changing Wear Parts



IMPORTANT!

Nozzles, gaskets and gasket seats can be damaged. Do not use metallical aid to remove and insert those parts.

7.1 Changing the nozzle set

A nozzle set includes needle (1.1.1 or 1.1.2), nozzle (2.1.1 or 2.1.2) and air cap (3.1.1 or 3.1.2). If nozzle size is to be changed, always change all three parts. Change the complete set also when only one of the parts is defect.

- Screw out needle lock (11.1.0)
- Pull out needle (1.1.1 or 1.1.2) and needle spring (10.1.0)
- Unscrew air cap (3.1.1 or 3.1.2)
- Screw out nozzle (2.1.1 or 2.1.2)

Reassemble in reverse order. To prevent damage to the needle seat during replacement, the needle (1.1.1 or 1.1.2) must only be inserted into firmly installed nozzle.

To assemble an extension please make the same steps as "Changing nozzle set".

7.2 Changing Needle Gasket (16.1.0) for needle

- Screw out needle lock (11.1.0)
- Pull out needle (1.1.1 or 1.1.2) and needle spring (10.1.0)
- Screw out stuffing box (14.1.0) and PTFE gasket (16.1.0)
- Change PTFE gasket (16.1.0)

Reassembling in reverse order. After the stuffing box is screwed in, the needle must glide within the gasket smoothly but not too loose. Screw stuffing box in or out as it is effective.

7.3 Changing valve cone (17.1.0)

- Screw out valve lock (13.1.0)
- Pull out valve spring (21.1.0)
- Change valve cone (17.1.0)

Reassembling in reverse order.

7.4 Changing needle gasket (16.1.0) for valve pin

- Screw out valve lock (13.1.0)
- Pull out valve spring (21.1.0), valve cone (17.1.0) and valve pin (18.1.0)
- Screw out stuffing box (15.1.0)
- Change needle gasket (16.1.0)

Reassembling in reverse order. After the stuffing box is screwed in, the valve pin must glide within the gasket smoothly but not to loose. Screw stuffing box in or out as it is effective.

8 Cause of Faults

Nozzle drips:

needle (1.1.1 or 1.1.2) does not close properly, nozzle (2.1.1 or 2.1.2) is loose.

Gun drips above the trigger:

PTFE gasket (16.1.0) leaks, stuffing box (14.1.0) is loose; should be adjusted

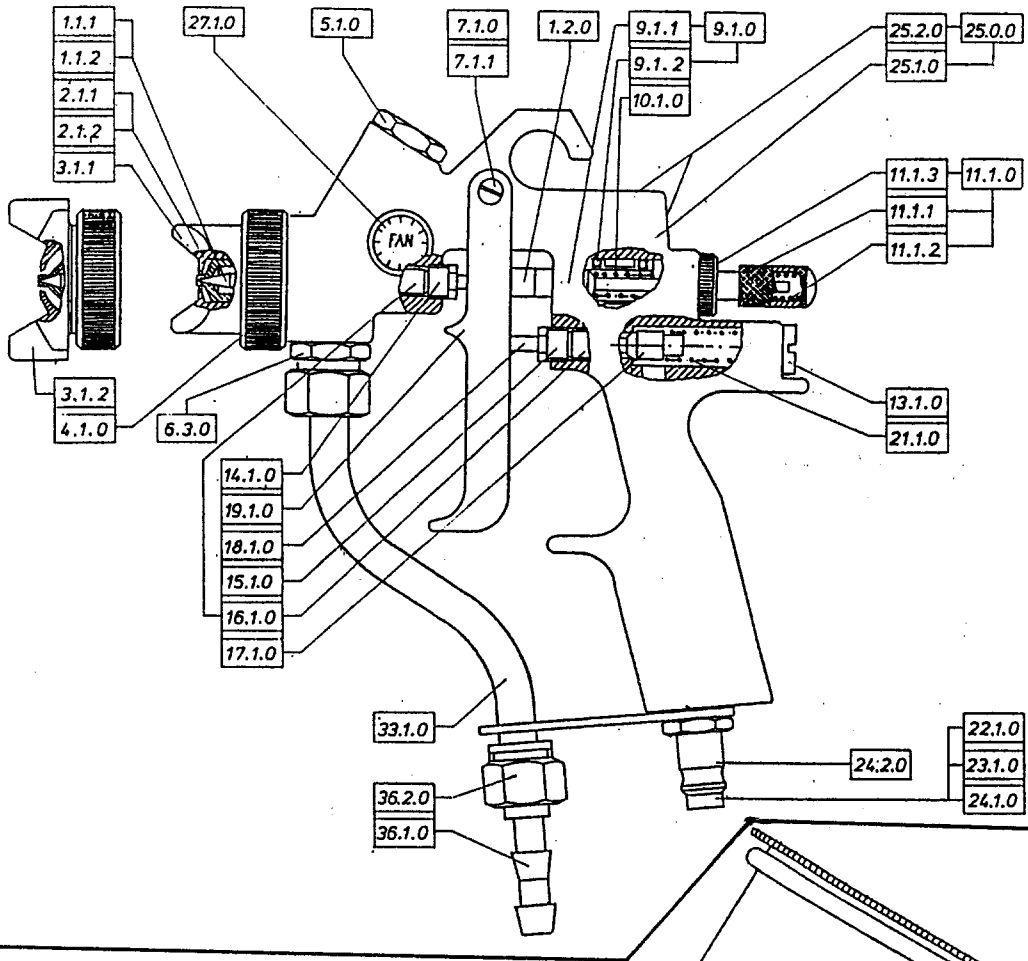
Problem with jet:

nozzle (2.1.1 or 2.1.2) is loose or defective

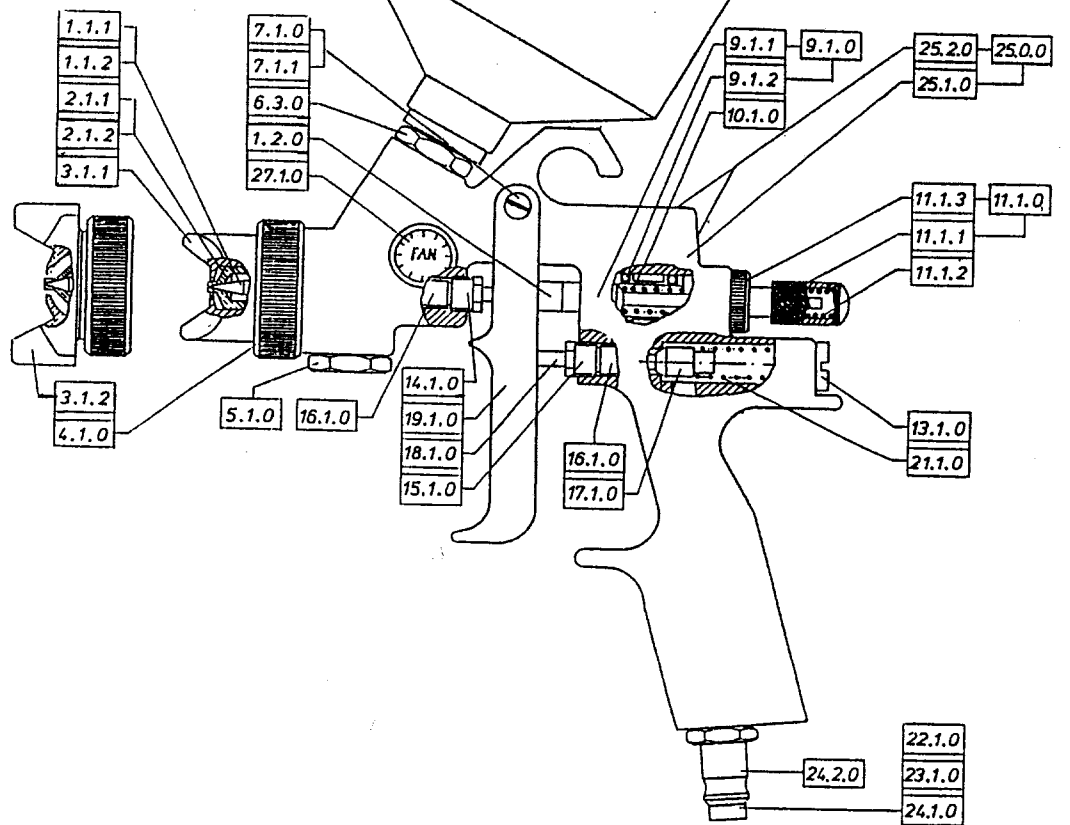
Air valve does not close when trigger is deactivated:

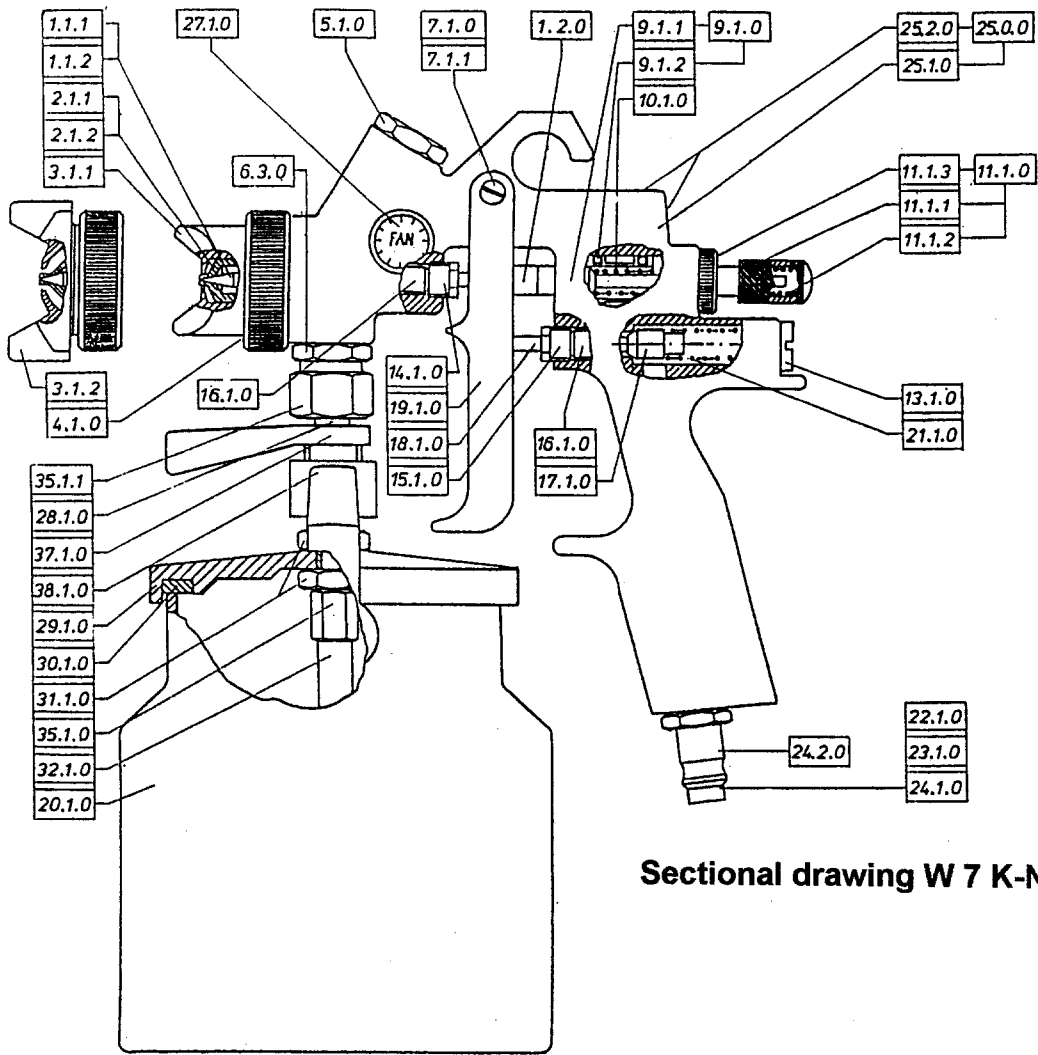
Stuffing box (15.1) is too tight or valve pin gasket (17.1) is dirty or defect.

Sectional drawing W 7 A-N

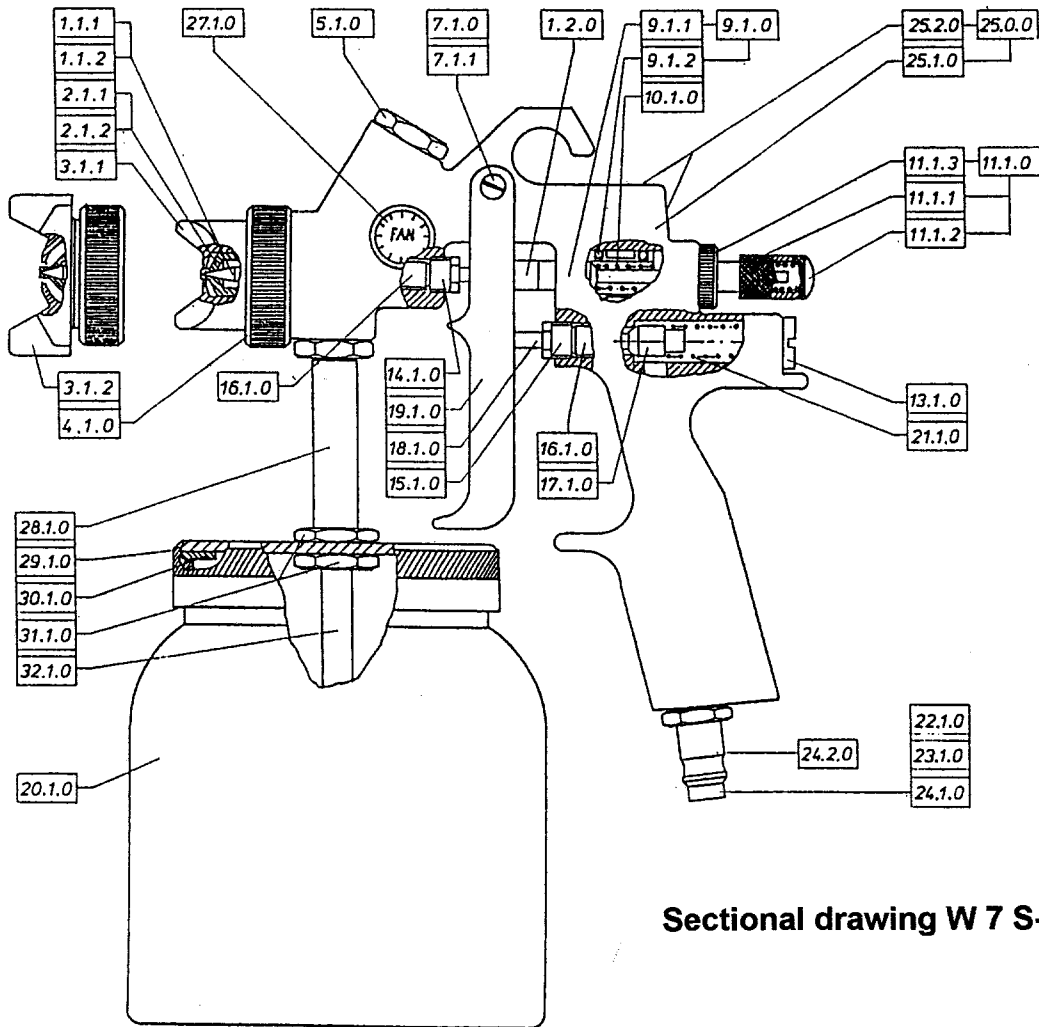


Sectional drawing W 7 B-N





Sectional drawing W 7 K-N



Sectional drawing W 7 S-N

| no. | description | remarks | W 7 | W 7 | W 7 | W 7 |
|---------|--|------------------------|-----|-----|-----|-----|
| | | | A-N | B-N | K-N | S-N |
| 1.1.1 | needle, stainless steel with needle nuts | not in standard supply | -- | -- | -- | -- |
| * 1.1.2 | needle, german silver with needle nuts | | XX | XX | XX | XX |
| 1.2.0 | needle nut | 2 x needed | XX | XX | XX | XX |
| * 2.1.1 | nozzle, stainless steel | not in standard supply | -- | -- | -- | -- |
| * 2.1.2 | nozzle, german silver | | XX | XX | XX | XX |
| * 3.1.1 | aircap | | XX | XX | XX | XX |
| * 3.1.2 | industry head | only in version "IK" | -- | -- | -- | -- |
| 4.1.0 | collar ring | | XX | XX | XX | XX |
| 5.1.0 | material lock | | XX | XX | XX | XX |
| 6.1.0 | flow cup 0,75 ltr. aluminium, compl. | | -- | XX | -- | -- |
| 6.1.1 | lid for flowcup 0,75ltr., aluminium | | -- | XX | -- | -- |
| 7.1.0 | trigger pin | | XX | XX | XX | XX |
| 7.1.1 | screw for trigger pin | 2 x needed | XX | XX | XX | XX |
| 9.1.0 | air guide, complete | | XX | XX | XX | XX |
| 9.1.1 | fastening screw | | XX | XX | XX | XX |
| 9.1.2 | o-ring | 2 x needed | XX | XX | XX | XX |
| 10.1.0 | needle spring | | XX | XX | XX | XX |
| 11.1.0 | needle lock, compl. | | XX | XX | XX | XX |
| 11.1.1 | regulating cap | | XX | XX | XX | XX |
| 11.1.2 | spring for regulating cap | | XX | XX | XX | XX |
| 11.1.3 | needle lock | | XX | XX | XX | XX |
| 13.1.0 | valve lock | | XX | XX | XX | XX |
| 14.1.0 | stuffing box (needle) | | XX | XX | XX | XX |
| 15.1.0 | stuffing box (valve) | | XX | XX | XX | XX |
| 16.1.0 | gasket PTFE | | XX | XX | XX | XX |
| 17.1.0 | valve cone (PTFE) | | XX | XX | XX | XX |
| 18.1.0 | valve pin | | XX | XX | XX | XX |
| 19.1.0 | trigger | | XX | XX | XX | XX |
| 20.1.0 | syphon cup, without lid for W 7 K-N | | -- | -- | XX | -- |
| 20.1.0 | syphon cup, without lid for W 7 S-N | | -- | -- | -- | XX |
| 21.1.0 | valve spring | | XX | XX | XX | XX |
| 22.1.0 | double nipple 1/4" | not in standard supply | -- | -- | -- | -- |
| 23.1.0 | cap nut 1/4" | not in standard supply | -- | -- | -- | -- |
| 24.1.0 | hose socket 9 mm | not in standard supply | -- | -- | -- | -- |
| 24.2.0 | nipple for quick coupler | | XX | XX | XX | XX |
| 25.0.0 | gun body, complete | | XX | XX | XX | XX |
| 25.1.0 | gun body | | XX | XX | XX | XX |
| 25.2.0 | screw M 8 | 2 x needed | XX | XX | XX | XX |
| 27.1.0 | jet regulator, complete | | XX | XX | XX | XX |
| 28.1.0 | cup support for W 7 K-N | | -- | -- | XX | -- |
| 28.1.0 | cup support for W 7 S-N | | -- | -- | -- | XX |
| 29.1.0 | lid for syphon cup W 7 K-N | | -- | -- | XX | -- |
| 29.1.0 | lid for syphon cup W 7 S-N | | -- | -- | -- | XX |
| 30.1.0 | gasket for W 7 K-N | | -- | -- | XX | -- |
| 30.1.0 | gasket for W 7 S-N | | -- | -- | -- | XX |
| 31.1.0 | lid nut for W 7 K-N | | -- | -- | XX | -- |
| 31.1.0 | lid nut for W 7 S-N | | -- | -- | -- | XX |
| 32.1.0 | suction pipe | | -- | -- | XX | XX |
| 32.1.1 | filter for suction pipe | | -- | -- | XX | XX |
| 33.1.0 | feed pipe | | XX | -- | -- | -- |
| 35.1.0 | connecting piece | | -- | -- | XX | -- |
| 35.1.1 | cap nut | | -- | -- | XX | -- |
| 36.1.0 | hose socket 12 mm | | XX | -- | -- | -- |
| 36.2.0 | cap nut 3/8" | | XX | -- | -- | -- |
| 37.1.0 | toggle for syphon cup | | -- | -- | XX | -- |
| 38.1.0 | hanger for syphon cup | | -- | -- | XX | -- |

XX = part in spraygun type
 -- = part not in spraygun type

Technical data:

weight : W7A-N approx. 650g ; W7B-N approx. 720g ; W7K-N approx. 1.100g ; W7S-N approx. 900g.
 Special designs on request. Technical alterations reserved. January 1999.

Manufacturer Declaration:

The sprayguns of series W 7 were constructed and produced by
ALFRED SCHÜTZE Apparatebau GmbH, Hannoversche Straße 69 - 71, 28309 Bremen
 in accordance with the guidelines and standards of DIN EN 292. The guns can be combined with other modules or machines, which comply with DIN EN 292, without limiting the conformity.