



## Fitting- and Operation Manual with Spare Parts List

### **FT 803**



MG 347  
SB 228 (GB) 03.97  
Printed in Germany



**Before commencing  
operation read  
thoroughly operation manual  
and safety advice!**



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H. DREYER GmbH & Co. KG  
D-49202 Hasbergen-Gaste

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The tractor mounted AMAZONE Front Tank FT 803 is yet another product from the large range of AMAZONE farm machinery.

We congratulate you on the purchase of your new AMAZONE Front Tank. You have made a good choice.

Before starting the spraying operation, please study these and the sprayers' instructions carefully and by adhering to them make full use of your machine. You will then enjoy trouble-free and accurate spraying with your new AMAZONE SPRAYER WITH Front Tank.

No responsibility can be accepted by us if complaints and breakages are due to incorrect operation or lack of maintenance. Never put into operation your AMAZONE sprayer with Front Tank before having read carefully chapter 2.5 through to 3.2 including General Safety and Accident Prevention Advice. Your sprayer complies only with the regulations of the Agricultural Health and Safety Authorities when in case of repair original spare parts from AMAZONE are used for replacement.

Please enter here the serial number of your Front Tank. The number is punched into the right hand front part of the main chassis, viewed in direction of travel.

Please always quote the machine type and serial number when ordering spare parts or making enquiries.

**AMAZONE-Front Tank FT 803**

Serial-No.: \_\_\_\_\_

Die sicherheitstechnischen Anforderungen sind nur dann erfüllt, wenn im Reparaturfall **Original-AMAZONE-Ersatzteile** verwendet werden.

Lesen Sie die Betriebsanleitung vor Inbetriebnahme der Maschine aufmerksam durch. Beachten Sie besonders die Sicherheitshinweise der Betriebsanleitung.



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## 1.0 Information about the implement

### 1.1 Manufacturer

**AMAZONEN-WERKE H. DREYER GmbH & Co. KG**  
Postbox 51, D-49202 Hasbergen-Gaste/Germany.

### 1.2 Technical data for the AMAZONE-Front Tank FT 803

Tank capacity (litres)	800
Actual capacity (litres)	842
Width (mm)	1360
Length (mm)	900
Total height (mm)	1200
Net weight (kgs)	145

## 2.0 Important Hints

### 2.1 Safety-/Warning-Symbol



In this operation instructions this symbol is used with all operator safety hints at which life or health of persons is in danger. Please adhere to these hints and be especially careful in such cases. Please pass on all operator safety hints also to other users of this machine. Besides the hints in this operator instruction also the general safety and accident preventive advice should be adhered to.

### 2.2 Attention Symbol



This symbol will always be found in such places of this instruction book which should especially be adhered to in order to comply with rules, advice, hints and the correct procedure of the operation as well as to prevent damage to the implement.

### 2.3 Hint Symbol



This symbol marks machines' specific points which should be observed to ensure the correct spraying operation.

### 2.4 On receipt of the machine

When receiving the machine check that no damage has been caused in transit and all parts are present. Otherwise no responsibility can be accepted by us or the carrier. Any claim must be made within 3 days of receipt of machine.

#### The scope of delivery consists of:

- 1 - Front Tank cpl.
- 2 - Injector cpl.
- 3 - Suction hose (long)
- 4 - Pressure hose (long)
- 5 - Carton with pump, agitator switch, agitator hose etc.



## 2.5 Operation advice (designed use of the machine)

The tractor mounted front tank FT 803 has exclusively been designed for the usual operation in agriculture (designed use of the machine).

Any use beyond the one stipulated above is no longer considered as designed use. The manufacturer does not accept any responsibility for damage resulting from this; therefore the operator himself carries the full risk.

Under "designed use" also the adhering to the manufacturer's prescribed operation maintenance and repair conditions as well as the exclusive use of **original AMAZONE spare parts** is to be understood.

The tractor mounted AMAZONE front tank may only be operated, maintained and repaired by such persons who have been made acquainted with it and who have been advised about the dangers. Any damages or injuries resulting from arbitrary changes on the machine rule out the responsibility of the manufacturer.

All applicable accident preventive advice as well as any further generally accepted safety-, working-, medical- and road-traffic rules should be adhered to. Furthermore any existing law regarding the protection of crops as well as any safety advice on the machines' labels should also be adhered to.

Please pass on all safety advice also to other users of this machine.

In case of having to spray out such aggressive crop protective agents it is recommended to immediately after the mixing with water to apply them onto the field and to carefully clean the entire system with water.

All materials and components used in AMAZONE front tanks are liquid fertiliser proof.

## 2.6 Attention when using specific crop protection agents!

At the time of manufacturing this machine only a few crop protective agents are known which may cause damage to the materials used on the field sprayer. **We like to point out that, e. g. crop protective agents known to us such as Lasso, Betanal and Tramat, Stomp, Iloxan, Mudecan, Elancolan and Teridox may cause damage to pump diaphragm, hoses, tubes and tank if exposed for a longer time (20 hours) to such agents.** The mentioned examples of crop protective agents may not be taken as complete. In particular it must be warned against unpermissible mixtures of two or more varying crop protective agents. Materials which tend to freeze or glue may not be used for spraying.



### 3.0 General safety and accident prevention advice



**Basic principle:**  
**Always check traffic and operation safety before putting the machine to operation.**

1. Adhere to the general rules of health- and safety precautions besides the advice in this instruction manual.
2. The fitted warning- and advising plates give important hints for a safe operation; adhering to them protects your own safety.
3. When making use of public roads adhere to applicable traffic rules.
4. Become acquainted with all installations and controlling devices as well as with their function before beginning the operation. Doing this during operation would be too late.
5. Before beginning to drive, check surrounding area (children etc.). Ensure sufficient visibility.
6. Fit and check transport gear, traffic lights, warnings and guards.
7. Sitting or standing on the implement during operation or during transport is not permissible.
8. Attach implements as advised and only to the advised devices.
9. Special care should be taken when the implement is coupled to or off the tractor.
10. When attaching or removing the machine bring the supporting devices into the corresponding position (standing safety).
11. By fitting the front tank to your tractor axle loads are changed. Do not exceed max. allowable axle loads (see vehicle papers).
12. Adhere to the maximum permissible axle loads, total weights and transport measurements.
13. Mount the implement as prescribed. Moving behaviour, steerability and braking are influenced by mounted implements, trailers and ballast weights. Check sufficient steerability and braking.

14. Allow nobody to stand between tractor and implement if the tractor is not secured against rolling away by the parking brake and/or by the supplied chocks.

15. When filling the tank do not exceed the nominal volume.

### 3.1 Tractor mounted implements

1. When fitting the machine to the three point linkage of the tractor bring all control levers into such a position that unintended lifting or lowering is impossible.
2. When fitting to the three-point- linkage the mounting categories at the tractor and the implement must be comparable or must be made comparable.
3. In the area of the three point linkage there is danger of injury by its squeezing and shearing places.
4. When actuating the outside control for the 3-point linkage do not step between tractor and implement!
5. When travelling with the implement fitted to the tractor in transport position always make sure the lower link arms are arrested against side-movement.
6. During road transport with the lifted implement the hydraulic control lever must be locked against accidental lowering.

### 3.2 Basic safety rules, crop protection equipment

1. **Adhere to the recommendations of the crop agent manufacturer.**
  - Protective clothing,
  - Warning hints,
  - Metering-, using- and cleaning advice.
2. **Adhere to advice of the crop protection law.**
3. **Never open hoses or tubes which are pressurized.**
4. If spare hoses are to be fitted **only original AMA-ZONE hoses from an operational pressure of 10 bar (hydr. hoses 290 bar)** may be used. which resist the chemical, mechanical and thermal strain.



Principly use only hose clamps made of **stainless steel** when fittin ghoses or tubings (refer to health- and safety advice regarding fitting of hoses).

5. Repair work inside the sprayer liquid tank may only be started after thorough cleaning and by wearing a breath protective mask. For safety reasons a second person should watch the work from outside the tank.

6. **The following should be noted when reairing sprayers which have been used for liquid fertiliser with Ammonium Nitrate Urea (AUS) solutions:**

Residue of Ammonium-Nitrate-Urea solutions can produce on top or inside the implement a salt by evaporation of the water. Hereby pure Ammonium Nitrate and urea is developed. In pure form Ammonium Nitrate in conjunction with organic material, e. g. urea react explosively if during repair operations (e. g. welding, grinding, filling) the critical temperatures are reached. The salt of the Ammonium Nitrate Urea solution is water dilutable, i. e. by thorough washing with water of the implement or the part to be repaired this danger is removed. Therefore, before starting to repair conduct a thoroughj cleaning of the implement with water.

7. **When filling the tank do not exceed the nominal volume.**



**When handling spray agent always wear the correct protective clothing as e. g. gloves, overall, protective glasses etc.**



**In tractor cabs with ventilation fans exchange filter for fresh air delivery by active carbon filters.**



**Consider the compatibility of spray agents and materials of the implement.**



**Crop sprayers for safe guarding man, animal and environmental must never be filled from open sources.**



**From the public waternet work crop sprayers may only be filled in free fall.**



**Do not spray any materials which tend to glue or to grow stiff.**





## 4.0 AMAZONE-Front Tank FT 803

The **AMAZONE Front Tank** consists of the assembly groups front tank with integrated agitator, injector pump with regulator unit and floating body, 60 l/min. plug-on pump and connecting hoses with quick couplings.

### 4.1 Method of working of tractor mounted sprayer with Front Tank (in general)

**Fully automatic process of all operational functions such as:**

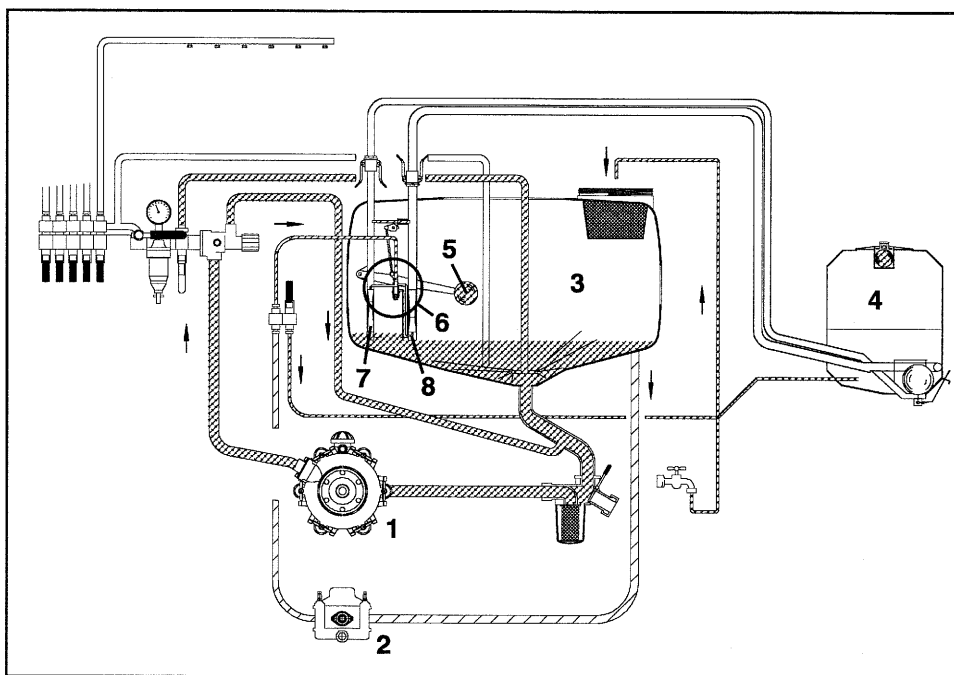
- filling,
- mixing the spray cocktail,
- agitating,
- spraying,
- emptying of residue.

The front tank does **not** require any attendance..

When preparing the spray cocktail the required amount of plant protective agent will centrally be mixed inside the mounted sprayer tank and then distributed into the front tank.

Both pto-driven pumps (4.1/1 + 4.1/2) provide simultaneously the sprayer tank (4.1/3) and front tank (4.1/4) via the tractor mounted sprayer tank. As the liquid level rises in the mounted sprayer tank (4.1/3) it will lift the float ball (4.1/5) of the regulator unit (4.1/6). This causes the regulating unit

- in dependence of the liquid level in the mounted sprayer tank to regulate the supply of liquid to the injector pumps (4.1/7 resp. 4.1/8) and controls in this way the change of liquid between the mounted sprayer tank and front tank.



**Fig. 4.1**

When **starting the filling the regulator unit** of the mounted sprayer tank stands in **position "emptying"** so that no liquid will get into the front tank.

Only when the float ball has reached the upper position (4.1/9) the regulator is switched on and the liquid is pressed via the pressure hose (4.1/10) into the front tank.

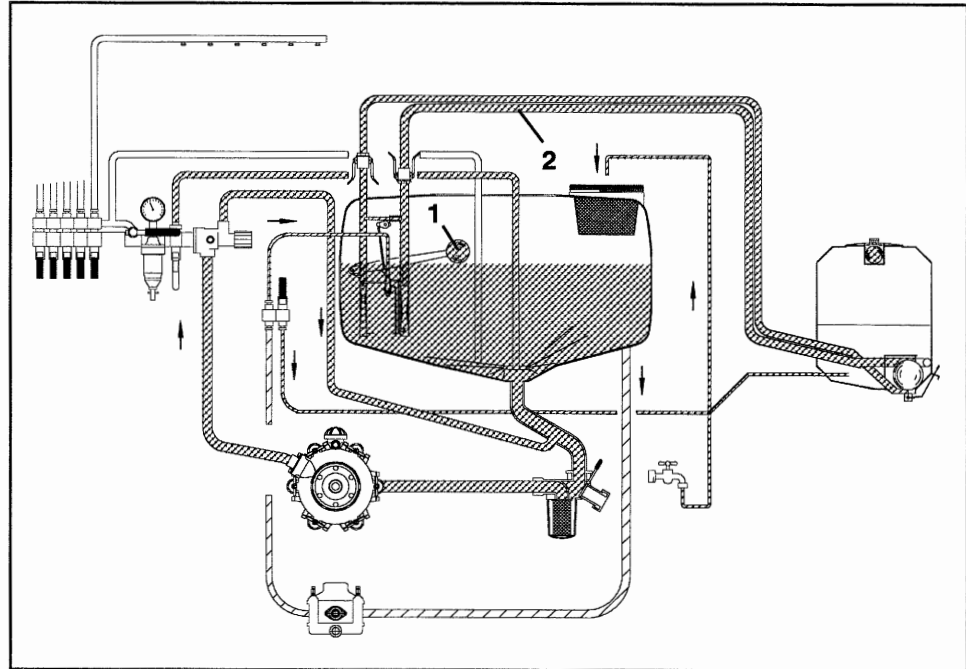


Fig. 4.2

When further on liquid is supplied after the front tank has been completely filled the liquid will be guided back into the mounted sprayer tank via the suction hose (4.1/11). This way a continuous exchange of liquid between the mounted sprayer tank and the front tank is achieved. This ensures an excellent mixing of the spray cocktail with a uniform contraction of agents in both tanks.

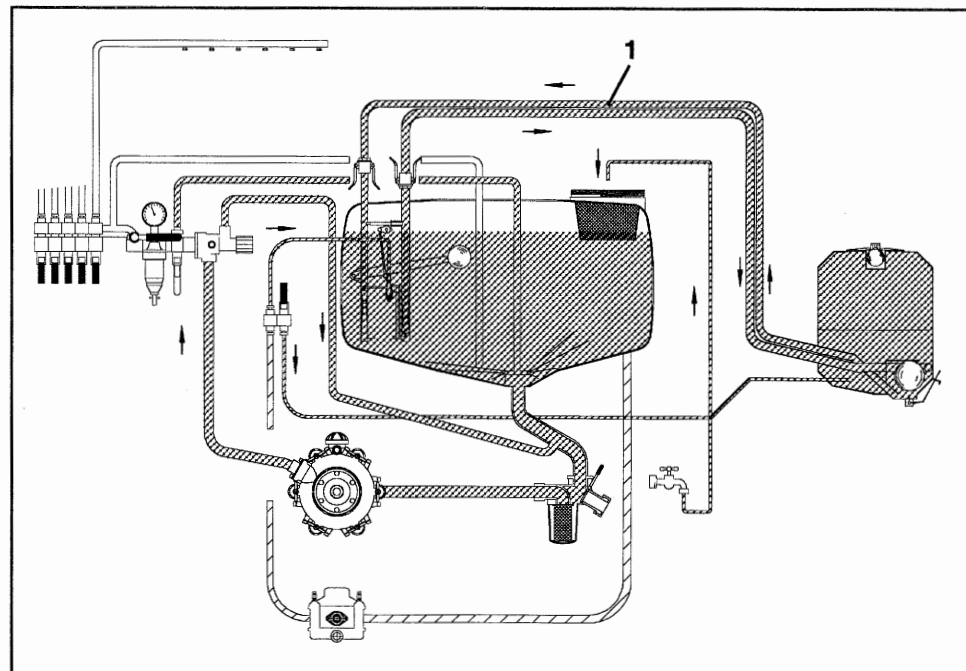


Fig. 4.3



During the **spraying procedure** the mounted sprayer tank will be emptied until the liquid level has caused the float ball to get into the middle position (4.4/ 2).- **The lowering of the float ball** causes a switching over of the regulator valve. Now liquid from the front tank is sucked into the mounted sprayer tank.



**In the middle position of the float ball** the liquid level in the mounted sprayer tank will be kept nearly constant until the complete front tank emptying.

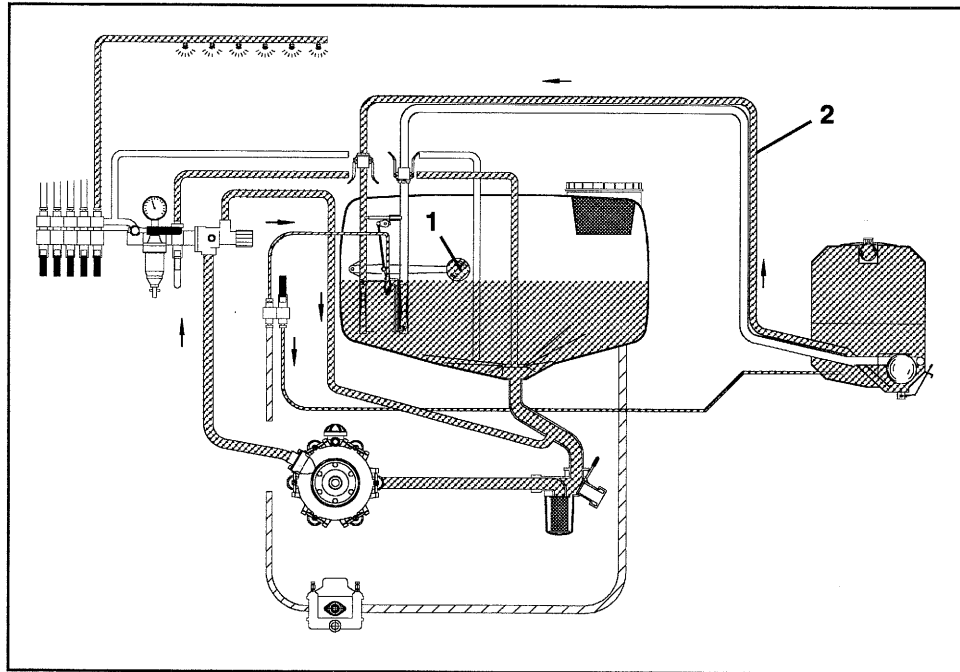


Fig. 4.4

After the complete emptying of the front tank the liquid level inside the mounted sprayer tank will continue to drop. When the float ball has reached the lower position (4.5/3) no liquid is pumped back into the front tank.

Venting the front tank when filling or emptying is achieved via the lid breather on the front tank lid (4.5/1).

When the front tank is emptied, the ball (4.5/2) shuts off the suction opening of the suction hose (4.5/3) and prevents in this way that air is sucked into the mounted sprayer tank (**important when using foam producing spray agents**).

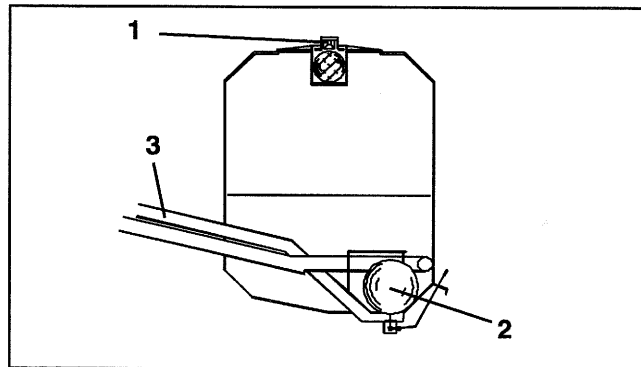


Fig. 4.5

**When the front tank is filled the ball (4.6/1) shuts off the venting opening.**

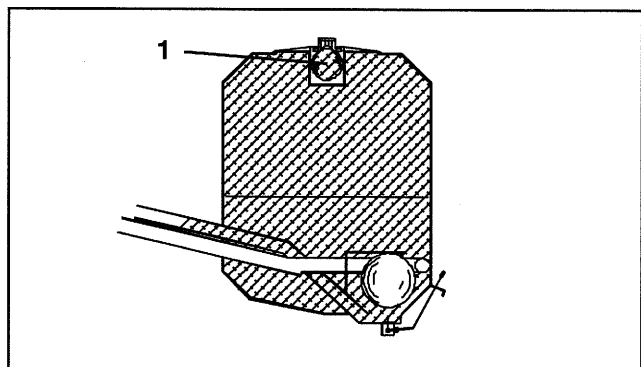


Fig. 4.6

## 5.0 Fitting to tractor and assembly

Front Tank and injector pumps can be combined with the following AMAZONE tractor mounted sprayer types:

US 805, US 1005, US 1205

UF 800, UF 1000, UF 1200.

### 5.1 Fitting front tank to tractor

- Fit front tank (5.1/1) to the tractors' hydraulic front three-point linkage. Connect the tractors' front lower links to the lower link pins (cat. II) and secure with clip pin.
- Fit top link by inserting top link pin (cat. II) and secure. Set the top link length until the front tank reaches vertical working position.
- Raise the support legs (5.1/2) and secure in transport position. Secure pins with spring pins.
- If necessary take off the transport wheels

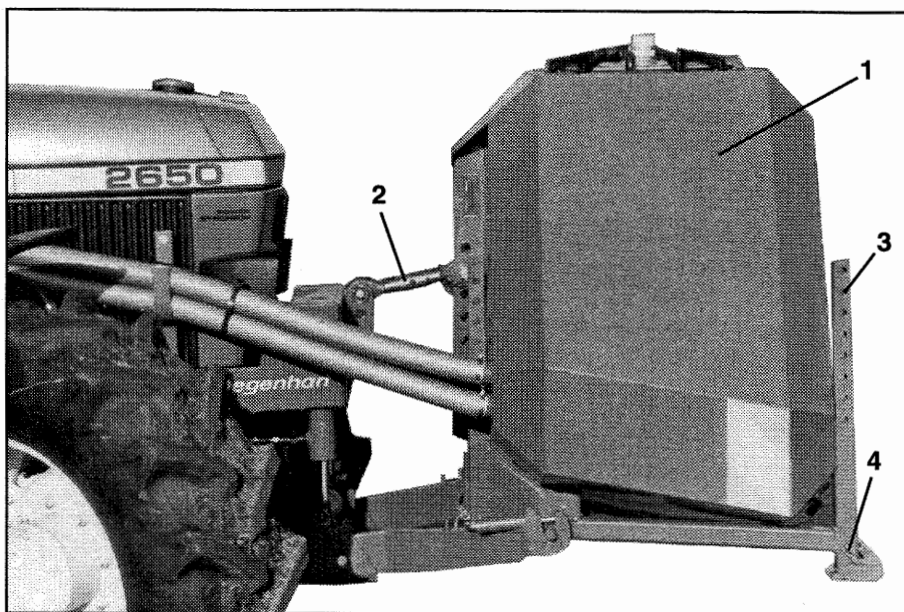


Fig. 5.1

### 5.2 Fitting the injector

according to Fig. 5.2/...

- 1 - Injector top part.
- 2 - Pressure hose pump.
- 3 - Injector base part.
- 4 - Pressure injector; for pumping liquid from tractor mounted sprayer tank into the front tank.
- 5 - Suction injector for sucking liquid from the front tank into the tractor mounted sprayer tank.
- 6 - Regulator unit with float ball (7); for regulating the liquid exchange between tractor mounted sprayer tank and front tank.
- 7 - Float ball.
- 8 - Injector hoses.

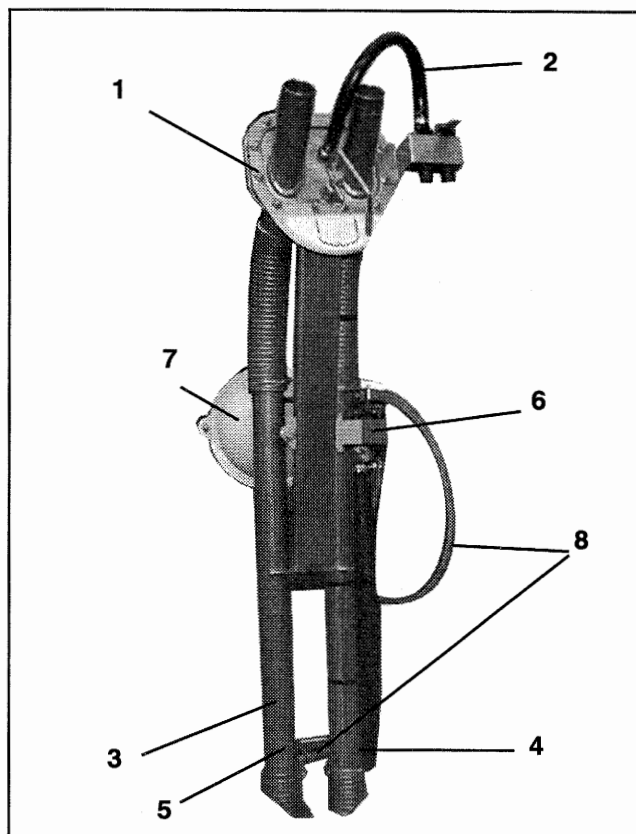


Fig. 5.2



### Fitting injectors inside tractor mounted sprayer tank:

- Stick sticker "hole pattern" ("Lochbild") (5.3/1) (cutting- and drilling pattern) for fixing the injector inside the tractor mounted sprayer tank to the right hand tank front side (as seen in driving direction). Please observe the following hints:

- Place upper edge (5.3/2) of the injector flange as close as possible to the tanks' rounding (5.3/3).
- Ensure that the spacing "a" is approx. 650 mm between the centre of the tractor mounted sprayer tank (5.3/7) and the injector centre (5.3/5).

**(Please consider the widening of the injectors' lower part towards the front wall of the tank.)**



**Do not stick the symbol of the sticker "hole pattern" ("Lochbild") "upside down" to avoid wrong positioning of all holes.**

- Drill pre-marked holes (diam. 10 mm) as well as the hole for the electric jig saw.
- Cut out the pre-marked line with the electric jig saw.
- Remove remainder of pattern sticker.
- Determine length "L" of the injector hoses (5.2/8).
  - For this measure the distance ("b") between the lower edge of the tank cutting (5.4/1) and the tank bottom (5.4/2). **If necessary shorten hoses (5.5/1) so that the injector length "c" corresponds to the spacing measurement "b".**

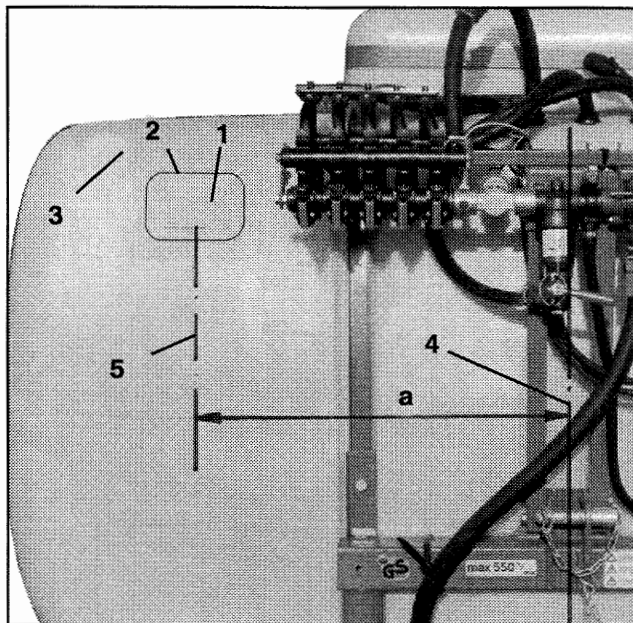


Fig. 5.3

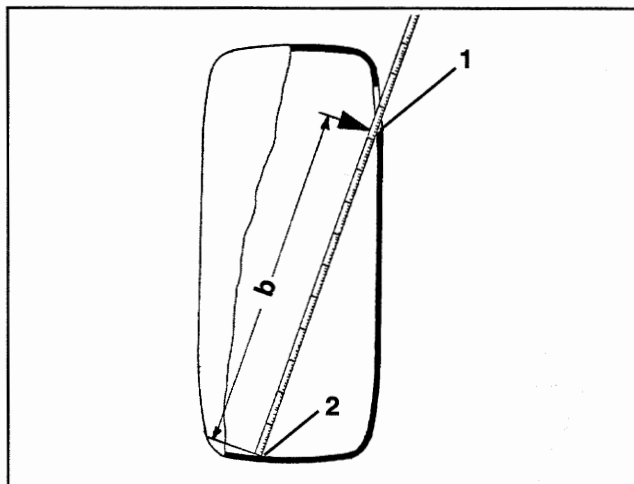


Fig. 5.4

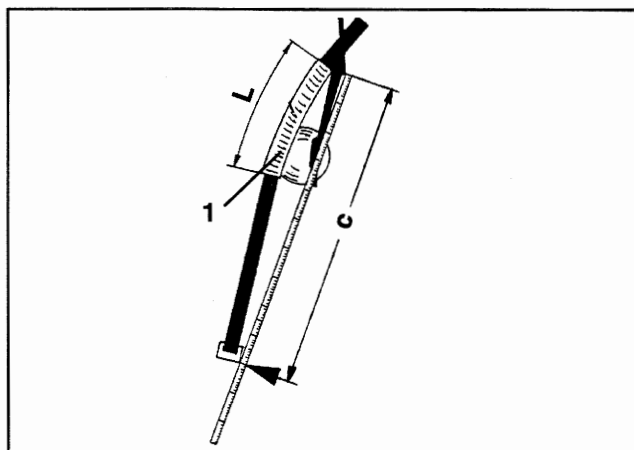


Fig. 5.5

- Mount regulator unit (5.6/1) with floating body into the upper of the two slotted holes (5.6/2). At a liquid level of approx. 500 litres inside the tractor mounted sprayer tank this way automatically the liquid exchange between the tractor mounted sprayer tank and the front tank is triggered off.

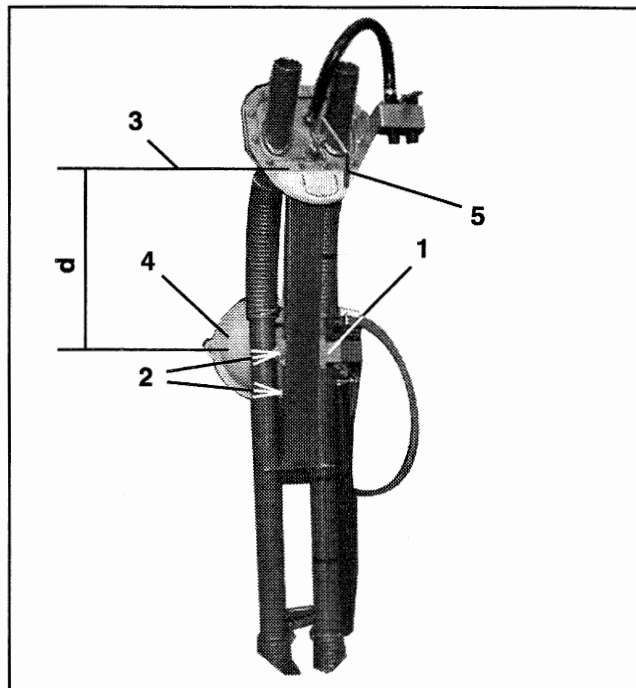


Fig. 5.6

- To achieve this measure spacing "d" between **lower edge** of the tank cutting (5.7/1) and the **desired liquid level** (5.7/2) (tank centre).
- Unscrew the outer flange (5.8/1) of the injector upper part (5.8/2). **The rubber sealing (5.8/3) remains on the inside flange (5.8/4).**
- Put injectors through the tank lid hole into the main tank.
- Guide injector upper part through the new tank cutting in accordance with line drawing (Fig. 5.8).
- Set outer flange above it and bolt on (Fig. 5.8/1). Then fit injector lever (5.8/5).
- Set agitator valve switch (5.8/6) on outer flange and fix with two nuts.
- Fit pressure hose (5.8/7) between injector connection and agitator valve switch.

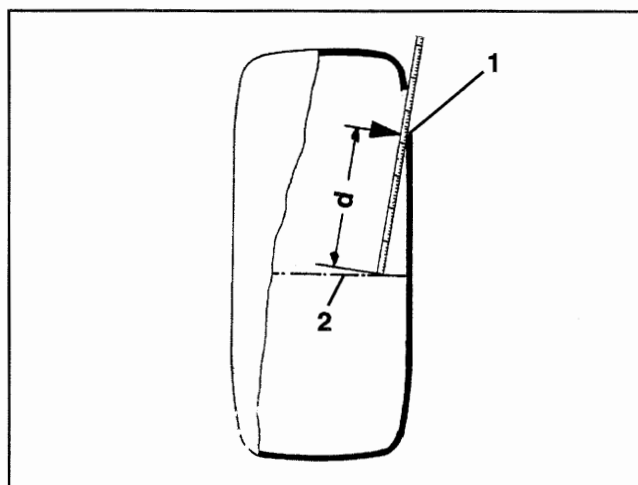


Fig. 5.7



**Any work inside the tractor mounted sprayer tank may only be conducted with a protective breathing mask and only following a thorough cleaning of the tank inside. For safety reasons a second person should watch the working operations from the outside of the tank.**



**Check whether the floating body can freely move up and down in its complete swivel range.**

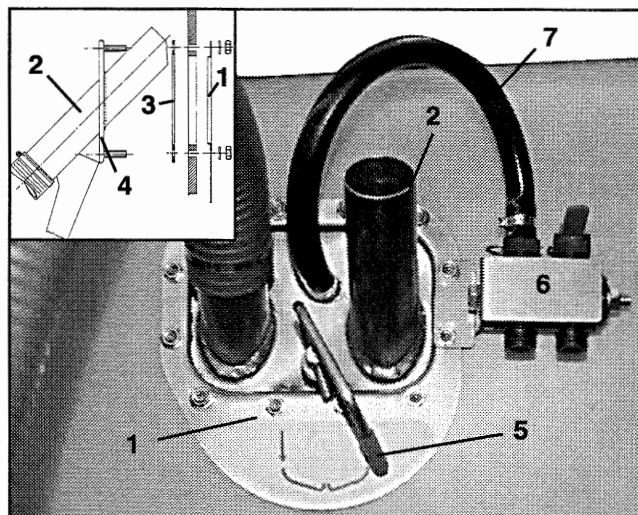


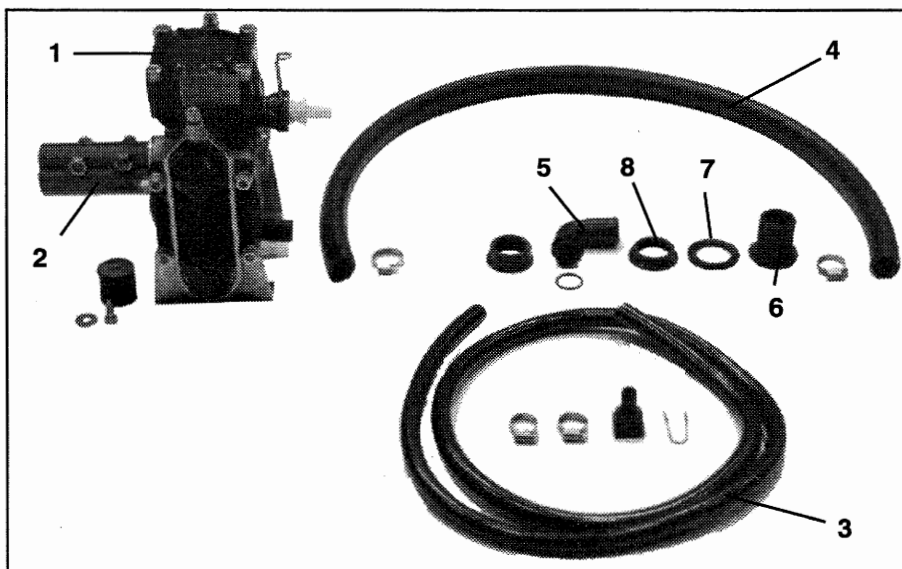
Fig. 5.8



### 5.3 Fitting 60 l min slide-on pump with suction hose

parts needed as per Fig. 5.9/...

- 1 - Slide-on pump 60 l/min.
- 2 - Clamping piece with bolts
- 3 - Pressure hose with hose clamps.
- 4 - Suction hose.
- 5 - Bent hose connector and hose clamps.
- 6 - Outlet stud.
- 7 - Sealing ring.
- 8 - Splined nut.



- Slacken fixing nuts of the sprayer pump (5.10/1) and pull pump forward.
- Fit slide-on pump (5.10/2) onto the through drive of the existing sprayer pump and affix with the clamping piece (5.10/3).
- Place one washer (5.10/4) between pump and pump support (for tilting the pump to the rear).
- Push both pumps back until approx. 10 mm in front of the shaft resp. hose and retighten bolts.
- Drill one hole (5.10/5) of a diam. of 42 mm sideways into the bottom of the sprayer tank.
- Place drain stud (5.9/6) and flat sealing (5.9/7) from the inside through the hole and affix by the splined nut (5.8/9) from the outside.

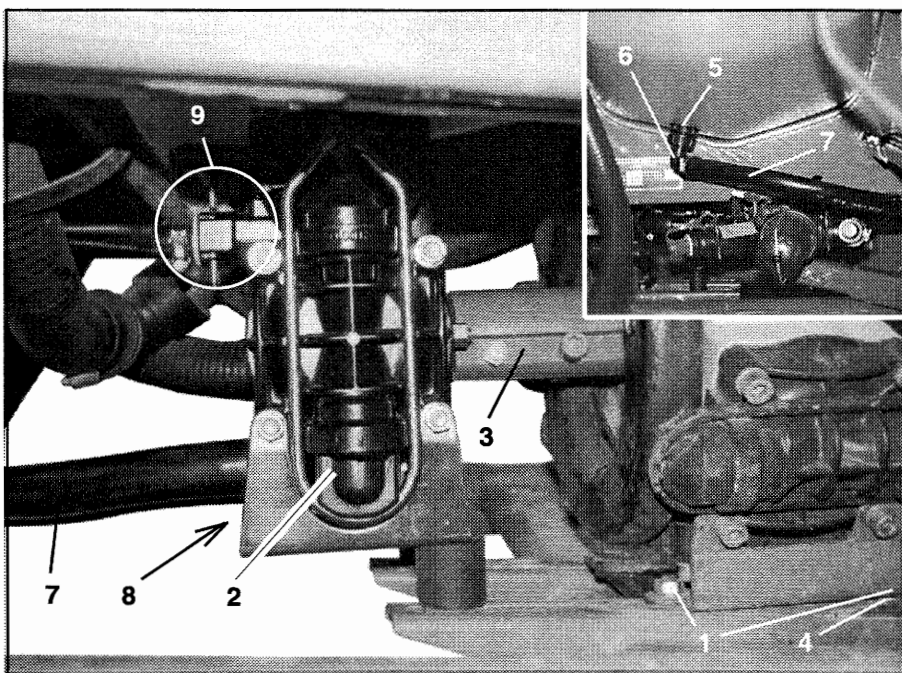


Fig. 5.10

Fig. 5.9

- Bolt to the draining stud the angled hose connection (5.10/6) with the O-ring, the sleeve nut and the suction hose (5.10/7).
- Push suction hose (5.10/7) onto the pump intake (5.10/8) and affix with the hose clamp (if necessary warm up hose to facilitate the proper fitting).
- Plug in the pressure hose with the plug end (5.10/9) into the pump (5.10/2) and secure with clip pin.



- Place the pressure hose (5.10/9) from under the sprayer forward and plug it over the agitator switch inlet (5.11/1) and secure with clip pin.
- Plug agitator hose (5.12/1) onto the inlet of the single tap (5.11/2 resp. 5.12/2) and secure with R-pin.

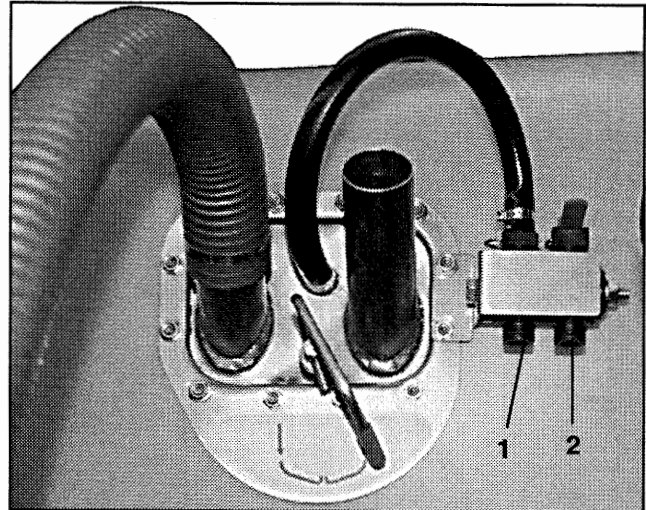


Fig. 5.11

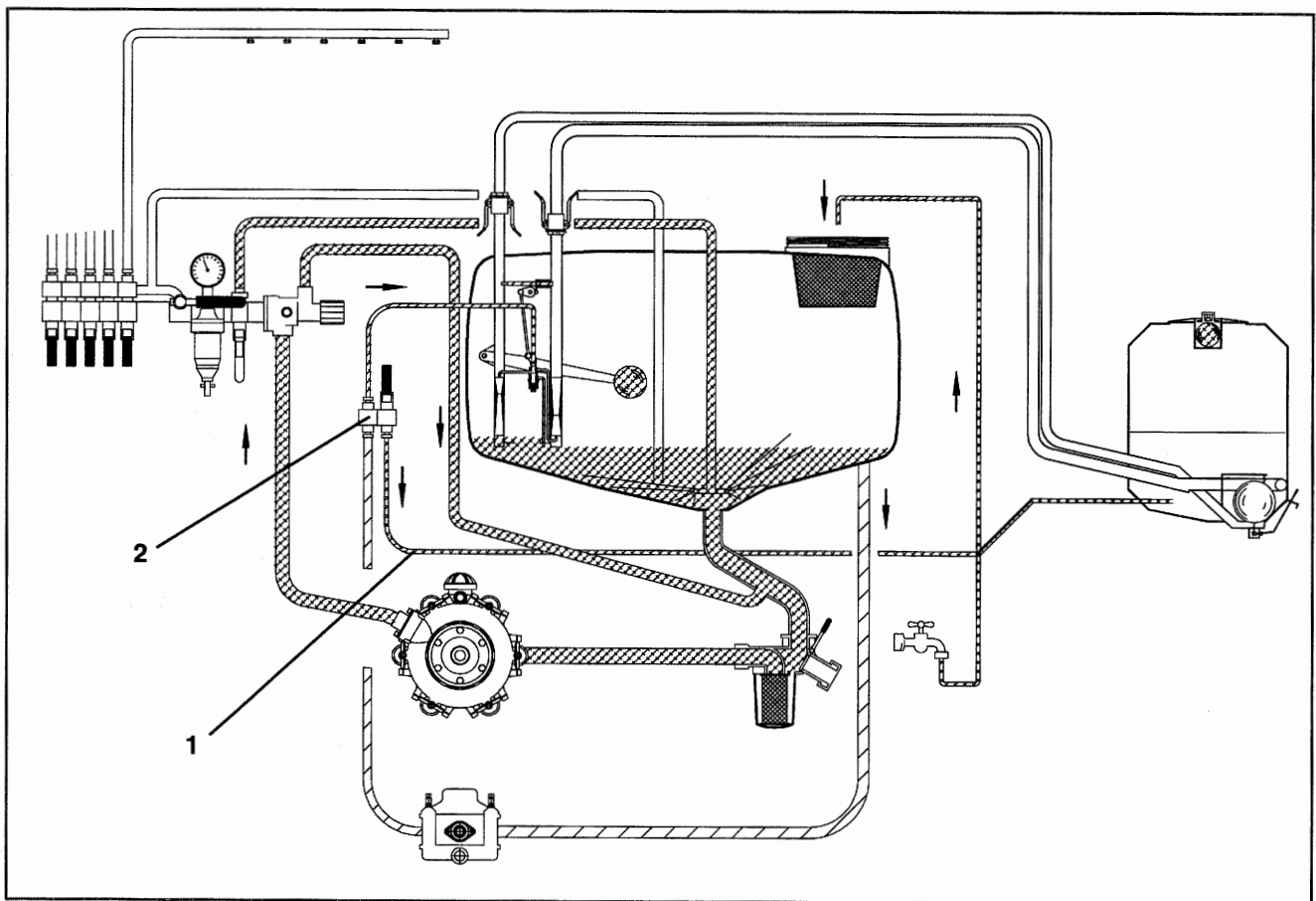


Fig. 5.12





## 5.4 Hose extension between tank of mounted sprayer and front tank

- Affix U-shaped brackets (5.13/1) for placement of the hoses to the tractors' right hand side (seen in travelling direction).



Fit these brackets in such a way to the tractor that the placed hoses cannot be damaged by the tractors' front wheel.

- Place also suction and pressure hoses as well as the supply hose for the front tank agitator onto the tractors' mud guard and into the brackets provided.



Fig. 5.13



To determine the hose lengths lower tractor mounted sprayer and front tank into the lowest possible position.



If possible place suction and pressure hose in such a way that the hoses do not bend down.

- Connect hoses via couplings (5.13/2) with the hoses on the injector.
- Stick suction hose (5.13/3) onto the **upper** stud (5.13/4) of the front tank and affix with hose clamp (5.14/1). If necessary shorten suction hose.
- Stick pressure hose (5.13/5) onto the **lower** end connector (5.13/6) and secure with hose clamp (5.14/2). If necessary shorten pressure hose.
- Stick hose (5.14/3) for the front tank agitator onto the front tank connector and secure with hose clamp.
- Bundle hoses with cable binders (5.13/7) on several places.



Please make sure that the hoses are connected to the correct connectors.

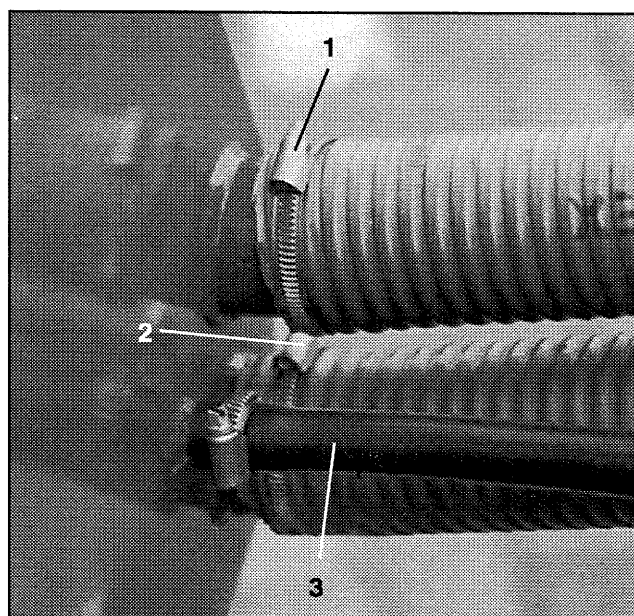


Fig. 5.14

## 6.0 Function controls and their description

### 6.1 Level indicator

consisting of Fig. 6.1/...

- 1 - Liquid level indicator
- 2 - Scale in litres
- 3 - Pointer

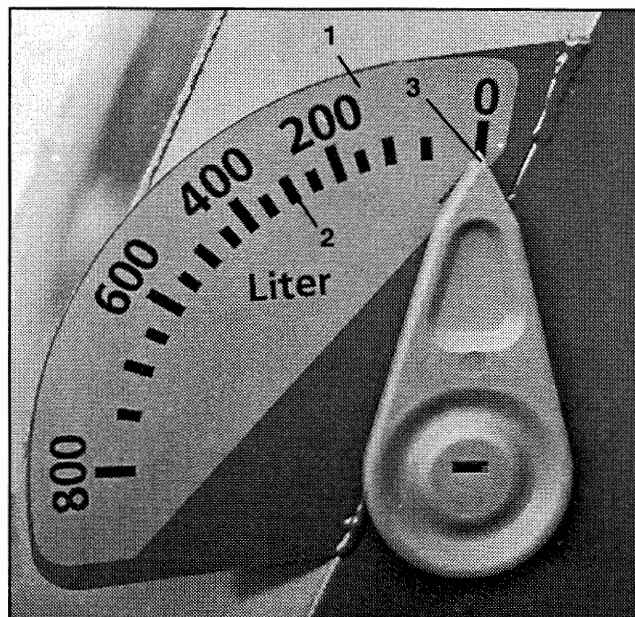


Fig. 6.1

### 6.2 Emptying tap

consisting of Fig. 6.2/...

- 1 - Emptying tap for draining off the residue (approx. 4 litres) from the front tank.
- 2 - Control levers for the emptying tap.
- 3 - Sticker "emptying tap".
- 4 - When the control lever as illustrated is in the end position of the slotted guide hole (5) the emptying tap is shut off.
- 5 - Slotted guide hole.
- 6 - In this end position the emptying tap is opened.

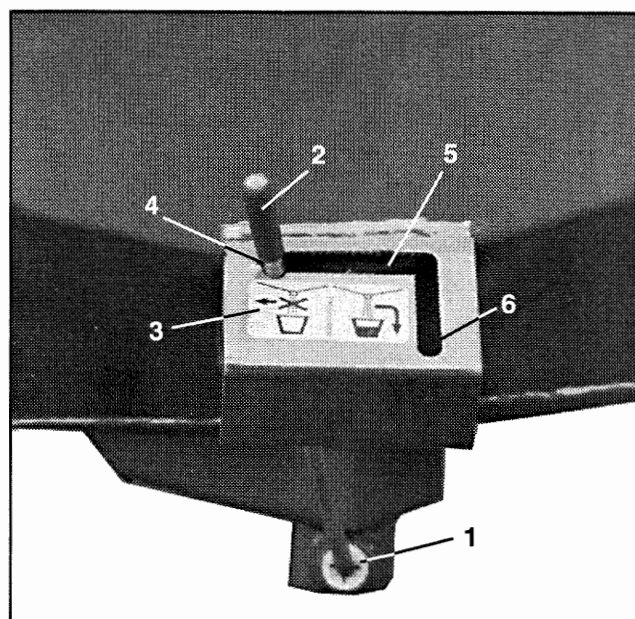


Fig. 6.2

### 6.3 Injector lever

consisting of Fig. 6.3/...

- 1 - Injector outer flange
- 2 - Injector lever
- 3 - Sticker "injector lever"

- If the injector lever shows towards the position **"front tank emptying"** liquid will be sucked off the front tank into the mounted sprayer tank.
- When the injector lever is swivelled over the arrow (6.3/4) into the position **"front tank filling"** the liquid is pressed from the mounted sprayer tank into the front tank.

The **injector lever positions** show you at any time the **present operation position**. These positions, however, can also be pre-selected manually by **swivelling the injector lever**. This way also a liquid exchange between the mounted sprayer tank and the front tank is manually controllable.

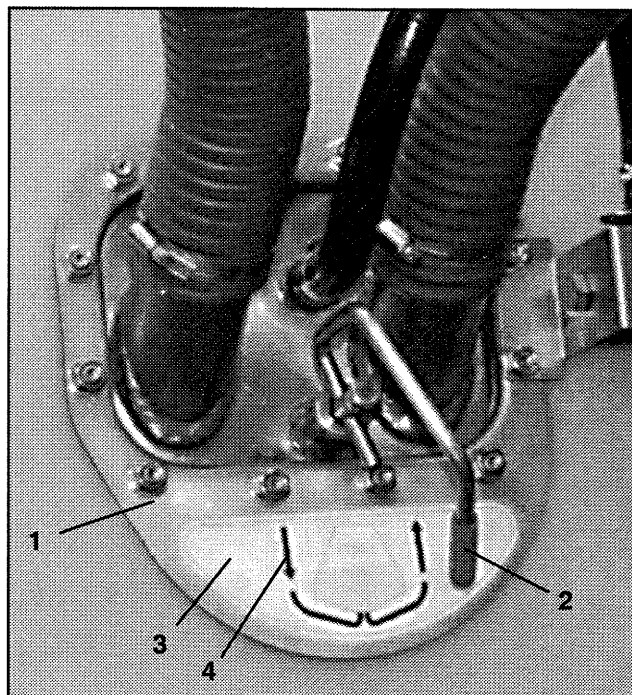


Fig. 6.3

## 7.0 Putting into operation

The handling of the mounted sprayer is **not** influenced by the addition of the front tank. For mixing the spraying liquid or agitating and sprayer operation an individual operating of the front tank is **not** required, i. e. **a fully automatic front tank operation from filling to spraying.**

### 7.1 Filling with water

The front tank filling is conducted centrally and automatically via the mounted sprayer tank as follows:

- The injector lever (7.1/1) is placed in position "front tank emptying".
- Switch on pto shaft and pumps with **medium** pump rev.'s.
- Fill mounted sprayer tank in the **usual** manner with water.

From a certain liquid level in the sprayer tank (depending on the pre-set float ball position) a **self-acting switch over** of the regulator into the position "front tank filling" (7.1/2) will follow. First the front tank is automatically filled.

When the front tank is completely filled, the remaining space inside the mounted sprayer tank is completely filled up. Hereby a **continuous liquid circuit** between the mounted sprayer tank and the front tank prevails because continuously liquid is pressed through the pressure hose into the front tank which then from there is being guided back via the suction hose into the mounted sprayer tank.



**When filling never leave the sprayer unattended.**

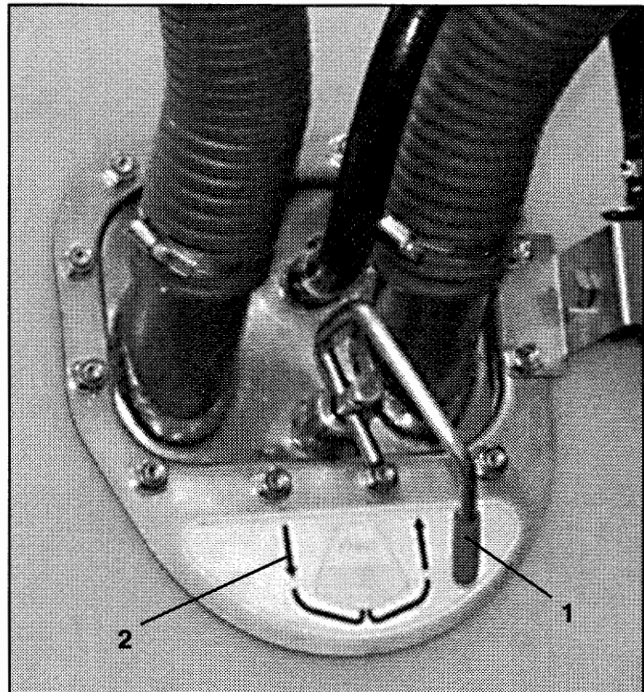


Fig. 7.1

### 7.2 Mixing the spray cocktail

When mixing the spray cocktail consider the volume of the front tank in addition to the volume of the mounted sprayer tank. The spraying cocktail is mixed centrally via the mounted sprayer. It is recommended to meter spray agents after the front tank has already been filled with **approx. 300 l** (soonest mixing time).

The **continuous** exchange of liquids between the mounted sprayer tank and the front tank ensures a uniform spray agent concentration in the front tank and in the mounted sprayer tank.



**Before any spray agent change clean thoroughly mounted sprayer and front tank..**



### 7.3 En route to the field

- Engage pto shaft.
- Swivel the injector lever (7.2/1 over the arrow (7.2/2) into position "front tank filling". This causes a **continuous exchange of liquids** between the mounted sprayer tank and the front tank so that a **thorough mixing** is achieved.



For spraying agents which tend to quickly settle on the bottom switch on the front tank agitator via the signal tap (7.2/3).

### 7.4 Spraying with a mounted front tank

- Set the spray pressure in the usual manner.
- Leave injector lever in position "front tank filling" (injector lever positioned over the arrow (7.2/2)).
- Engage pto shaft and drive pumps with the speed necessary for the operation.
- Sprayer is ready to operate.

During the spraying operation at first part of the mounted sprayer tank is emptied. From a certain liquid level in the sprayer tank onwards (depending on the set float ball position) an **automatic** liquid exchange between front tank and mounted sprayer tank is activated. This causes now the front tank being automatically emptied. Only after a complete emptying of the front tank the mounted sprayer tank will be emptied.

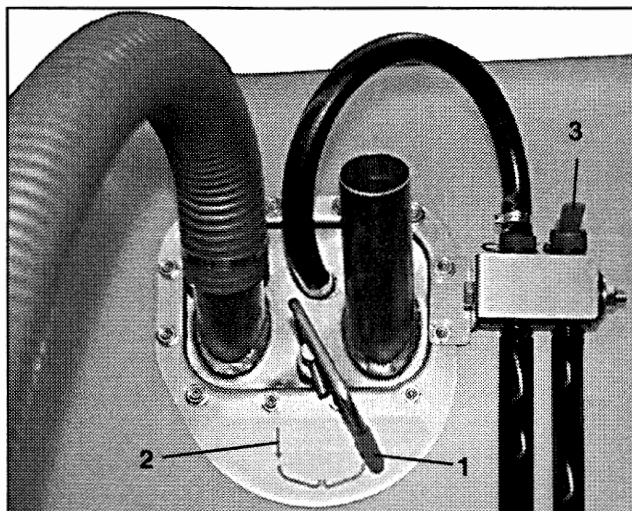


Fig. 7.2

This change is caused by less liquid being delivered via the sprayer booms than sucked from the front tank.

### 7.5 Remarks regarding the front tank operation



The injector pumps for the automatic front tank operation are designed to a certain supply capacity.

If the mounted sprayer tank is filled with a high capacity the supply by the injector pump for filling the front tank may perhaps be insufficient so that also the mounted sprayer tank will simultaneously be filled.

In extreme cases to achieve a complete filling of the front tank observe the spray level display on the mounted sprayer and briefly interrupt the filling of the mounted sprayer tank by swivelling the injector lever until the front tank is completely filled.

However, if the unit is filled with a lower supply it may happen that the filling and emptying of the front tank is continuously changing.

Also at the spraying operation a similar changing between emptying and filling the mounted sprayer tank may occur until the front tank is completely emptied and the injector pump is switched off.



## 7.6 Removal of residue

The **AMAZONE Front Tank FT** will be emptied down to a residue of **approx. 4 litres**. This residue can be emptied over the emptying tap (7.3) into a suitable collecting canister.



**Collect residue in suitable containers for intermediate storage and for a advised proper residue removal.**



**When emptying residue all advice for the users protection are applicable. Also follow advice by the spray agent manufacturer and wear suitable protective clothing.**

Another possibility exists to **remove the residue from the mounted sprayer tank and the technical residue of the front tank be diluted with ten times the amount of water and to spray it on the field afterwards**. For this proceed as follows:

- Switch on the agitator of the mounted sprayer.
- Drive pump with **medium** speed.
- Fill the necessary amount of water for diluting the **total residue amount** (residue in the sprayer tank plus 4 litres residue from the front tank) to the mounted sprayer tank.



**However, fill in at least so much water until the lower end of the injector tubes of the injector pumps stand in the liquid.**

- Swivel the injector lever (7.4/1) over the arrow (7.4/2) into the position "**front tank filling**" and hold in this position. This causes the liquid for diluting the residue being pressed from the mounted sprayer tank into the front tank.
- Then swivel back the injector lever into the position "**front tank emptying**" (7.4/3). The liquid will now be sucked back from the front tank into the mounted sprayer tank.
- **Lift ownwards hanging connecting hoses** between mounted sprayer and front tank so that the liquid is completely drained from the hoses.

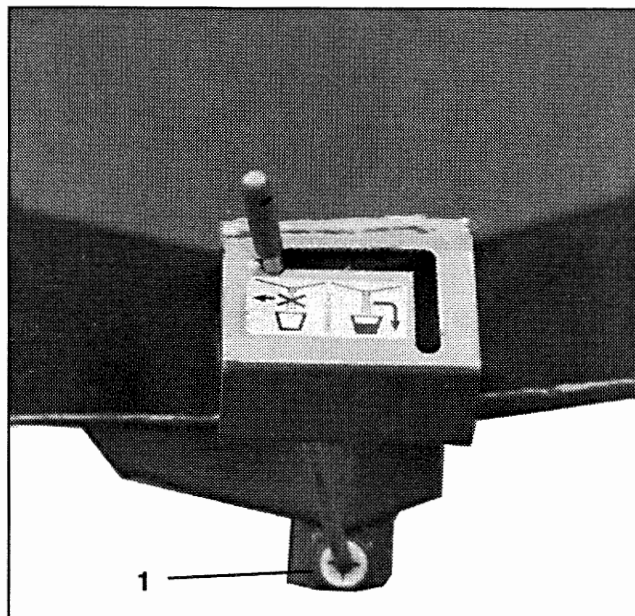


Fig. 7.3

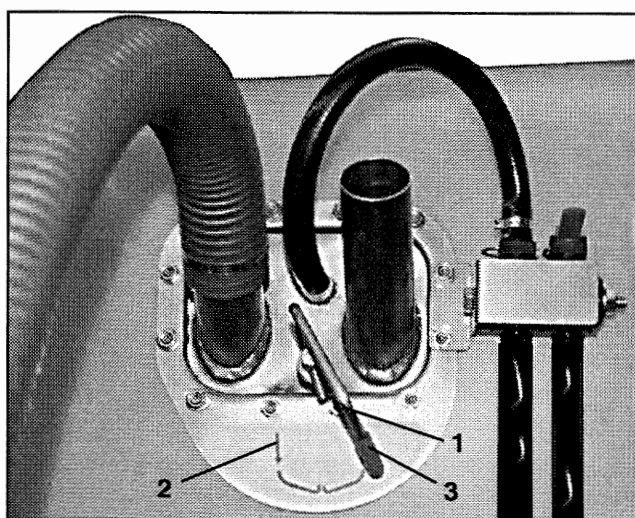


Fig. 7.4

- Place suitable canister under the outlet (7.3/1) of the front tank and **drain off diluted, technical residue** over the emptying tap (7.3/2) from the front tank and fill the collected liquid into the mounted sprayer tank.



When emptying from residue all measures for the users protection are applicable. Advice of the spray agent manufacturer should be observed and suitable protective clothing be worn.

- Spray out diluted residue from the mounted sprayer tank via the sprayer booms at increased forward speed by use of the next higher tractor gear.

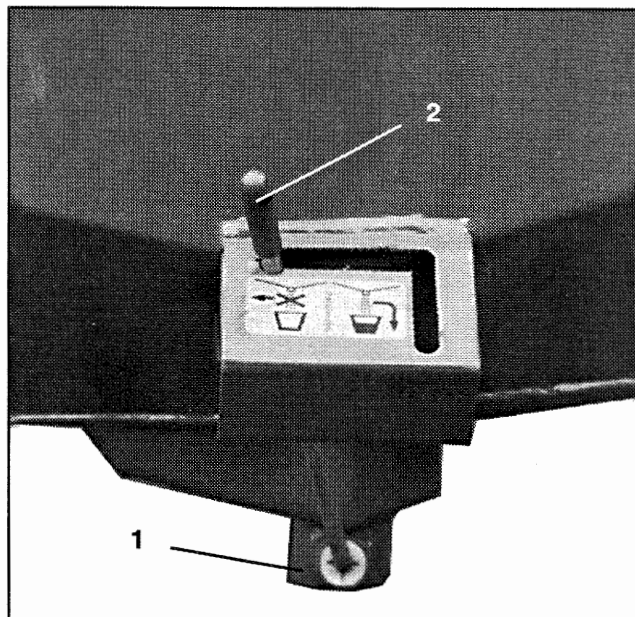


Fig. 7.3

## 7.7 Cleaning the front tank

Life span and reliability of the **AMAZONE-Front Tank FT** depend considerably on the time the spray agent could react on the surrounding material of the implement. By **daily cleaning** after terminating the spraying operation the reacting period should be kept as short as possible.



The spraying agent should not be left unnecessarily for longer periods, i. e. over night, in the front tank.

Before the actual cleaning of the mounted sprayer and front tank the spraying unit should be pre-cleaned on the field by diluting the residues in both tanks. Spray out diluted residue afterwards (refer to para. 7.6).

For cleaning proceed as follows:

- Slacken all lid clamps (7.5/1) and take off the front tank lid (7.5/2).
- Wash inside of emptied front tank with a strong jet of water. If necessary pump to and fro the liquid several times between front tank and mounted sprayer tank.
- Drain liquid from the front tank over the emptying tap (7.3/1).

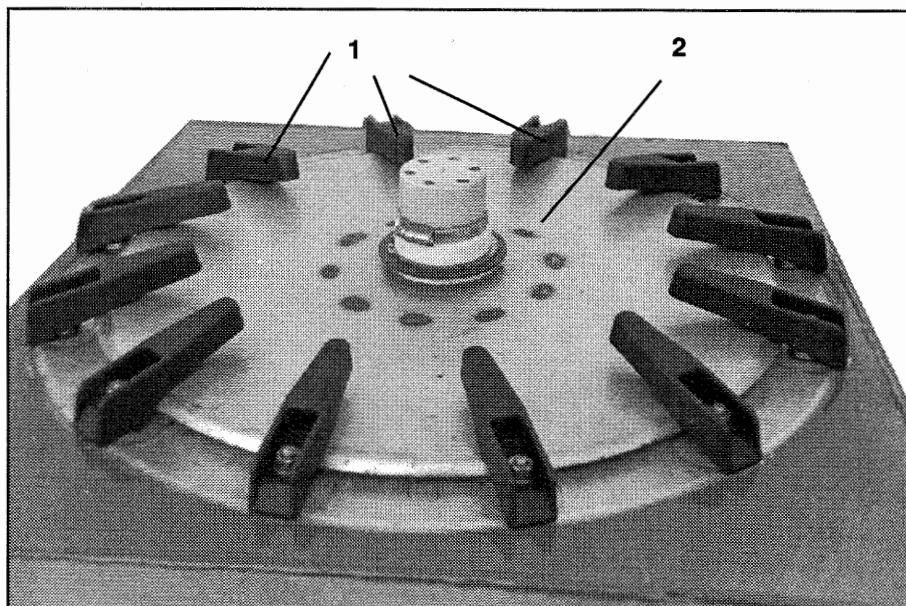


Fig. 7.5



- **For cleaning the injector pumps** connect hoses (7.6/1) via couplings.
- **Shift several times all injector lever positions by hand.** This causes the floating body controlled regulator unit being rinsed by liquid and possibly existing spray agent incrustings are being dissolved.



**Dispose of all cleaning residue collected from every cleaning of the front tank in accordance with the environmental advice.**

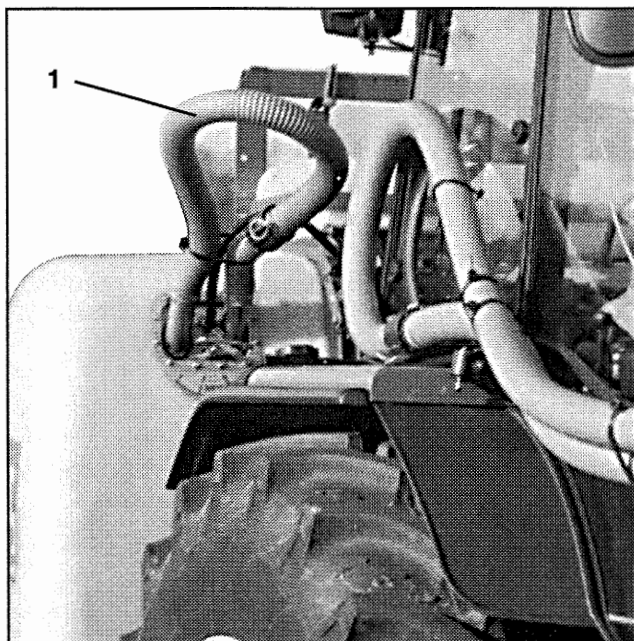


Fig. 7.6

## 7.8 Parking the front tank

- Pull out all 4 parking legs (7.7/1) and fix in the same position by pins (7.7/2). Secure pins by spring pins.
- Loosen hose couplings between mounted sprayer and front tank.
- To protect the hose couplings couple the hose ends together (Fig. 7.6).
- Take front tank off the tractor.

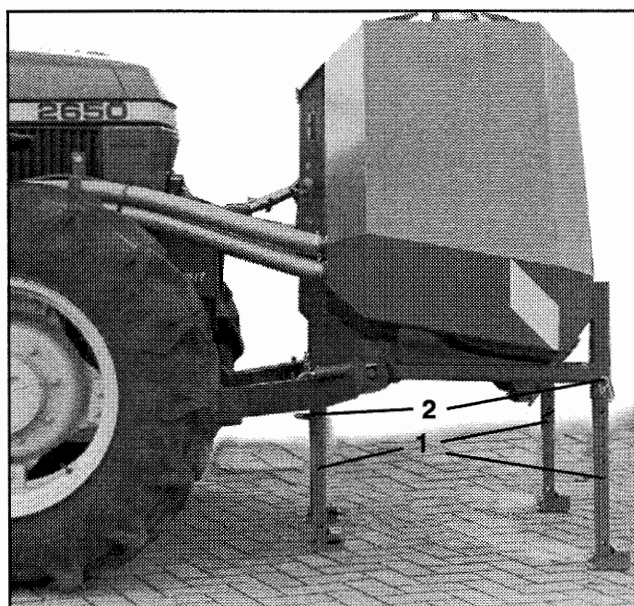


Fig. 7.7

## 7.9 Operating the mounted sprayer without front tank

- Connect hose ends via their couplings with one another (Fig. 7.6).
- Shut off the tap of the agitator switch (7.8/1).

## 7.10 Storing over winter

**Before storing over longer periods, e. g. over winter, clean the front tank thoroughly and drain off all liquid inside via emptying tap. (Please refer to para 7.7).**

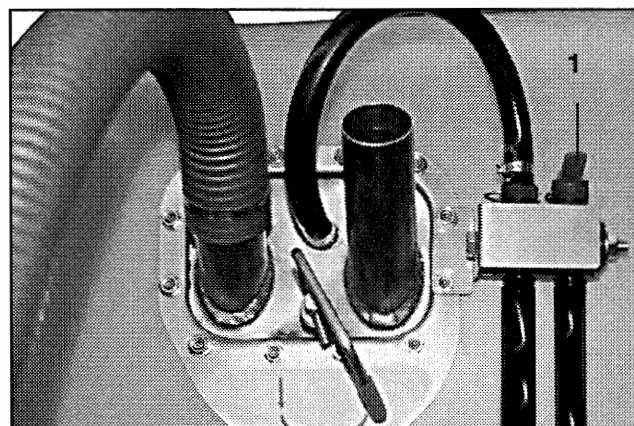


Fig. 7.8





## 8.0 Special options

### Transport roller kit

Transport rollers for moving the **empty** front tank. The transport rollers are slid from below into the parking supports and are to be secured with clip pin.



**Before filling the front tank remove the rollers! Never move the filled front tank on rollers!**



## 9.0 Trouble shooting: Faults, Cause and Remedy

Fault	Cause	Remedy
Liquid is pressed from under the lid	Pretensioning of lid clamp lever too low	Pre-tensioning of the lid clamps by carefully retightening the nuts.
	Lid is not positioned centrally.	Remove lid and positioned again centrally.
	Lid-O-Ring dirty or damaged.	Check O-ring for damage and clean. If necessary exchange O-ring.
No sucking in of liquid from the front tank	Drawing in of "air"	Connect hoses of the injectors with one another (short cut), start pump (increase speed over operational speed) shift all possible shifting positions of the injector lever for at least 30 seconds to this way rinse off possible incrustations on the injectors.
		Check, whether the injector is sucking. For this switch injector into "sucking" position, loosen couplings while pump is running and hold hand in front of the hose. If now sucking action is noticed the hoses of the injector inside the mounted sprayer tank are leaking. In case of leakage water runs out of the corresponding hose. Reset hose or exchange.
		Check hose couplings for proper sealing. Clean sealing surfaces.
		Increase lid clamp lever pre-tension by careful retightening the nuts.
		Check O-ring for damage and clean. If necessary exchange O-ring.
	Injector lower ends are not standing in the water.	Refill water until the injector lower ends are covered with water.
Front tank is not filled with liquid.	Leakages influence the function of the pressure injector.	Connect hoses of the injectors (short cut). Start pump (increase speed above operational speed), shift injector lever through all possible positions for at least 30 seconds to rinse off any incrustations on the injectors.
		Hoses of the injectors inside the mounted sprayer tank are leaking. In case of leakage water leaves the corresponding hose. Reset hose or exchange.
	Injector lower ends are not standing in the water.	Refill water until the injector lower ends are covered with water.



## Spare Parts List

# **AMAZONE**

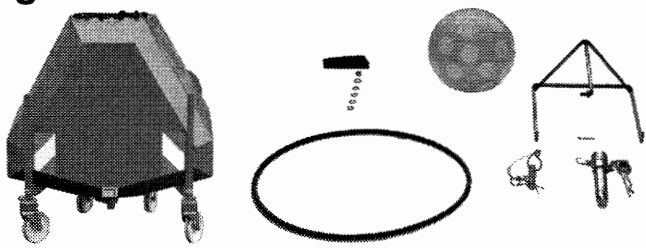
## **FT 803**



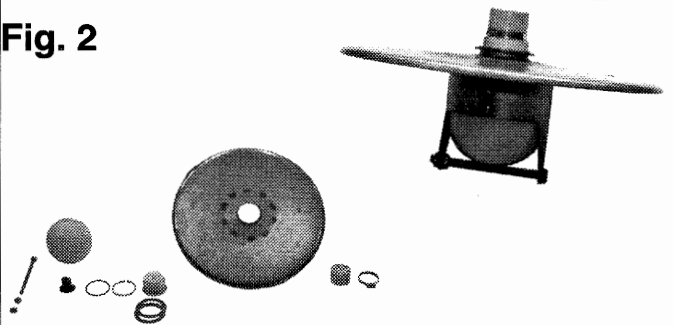
## Important hints

1. When ordering spare parts, always state the following data:
  - a) Type and serial number of the machine.
  - b) Description of the part.
  - c) Quantity of the desired part.
  - d) Order Number of the desired part.
2. The illustrated parts are neither in shape nor in execution obligatory.
3. The descriptions "right hand" and "left hand" are to be understood always as seen in operational direction.
4. Parts being marked with (\*) are to be considered as an option and will simultaneously also be found in the machinery price list.
5. Spare parts for pto-shafts are available on request resp. via direct order from the manufacturer or its distribution organisation.

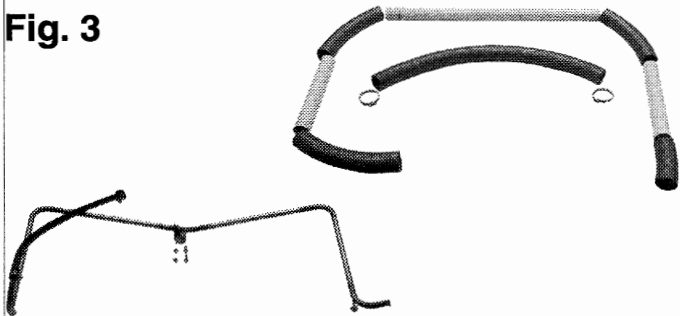
**Fig. 1**



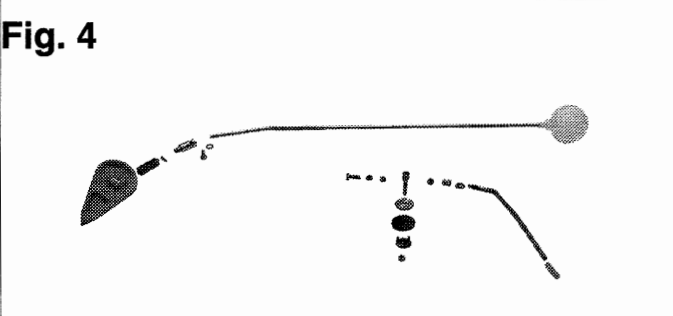
**Fig. 2**



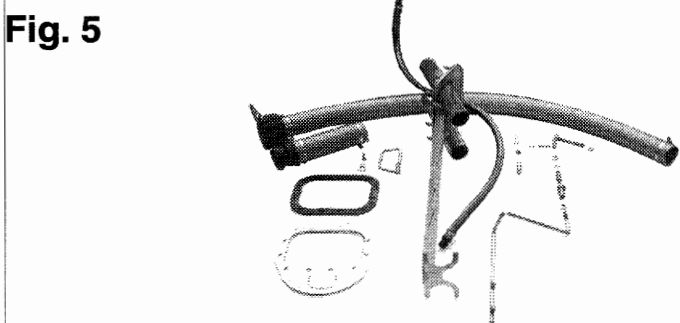
**Fig. 3**



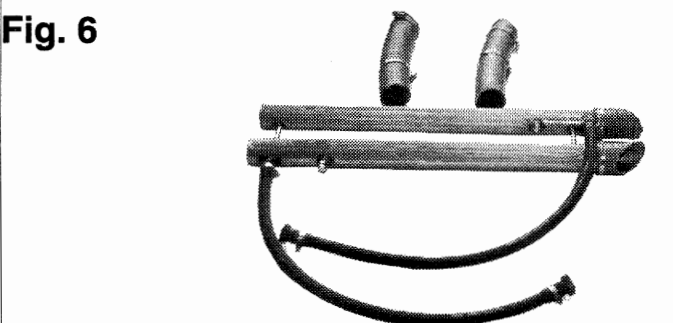
**Fig. 4**



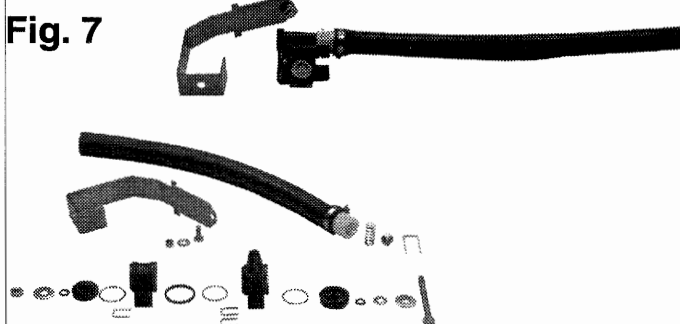
**Fig. 5**



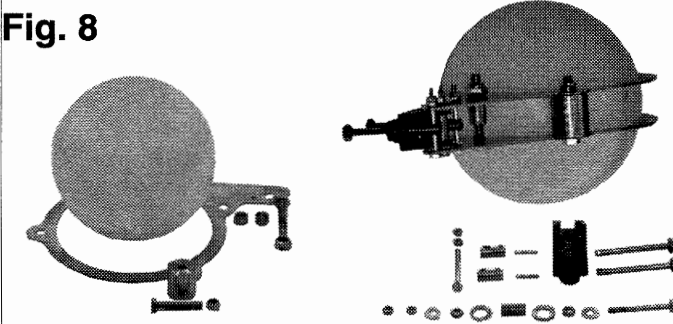
**Fig. 6**



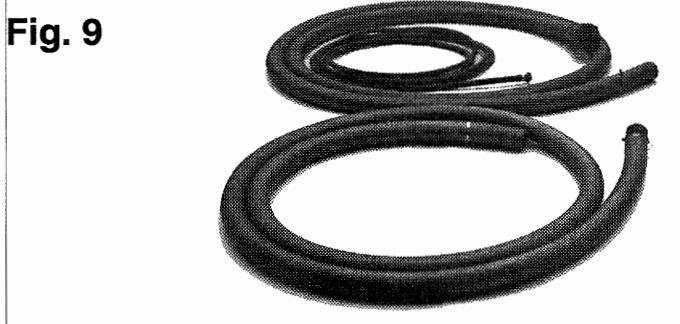
**Fig. 7**



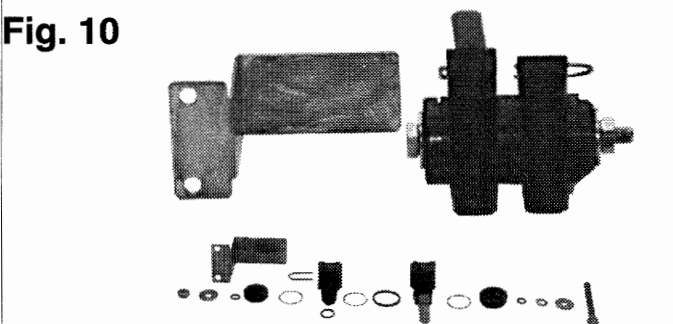
**Fig. 8**



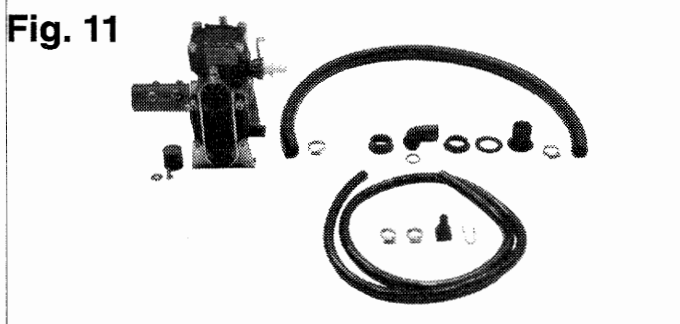
**Fig. 9**



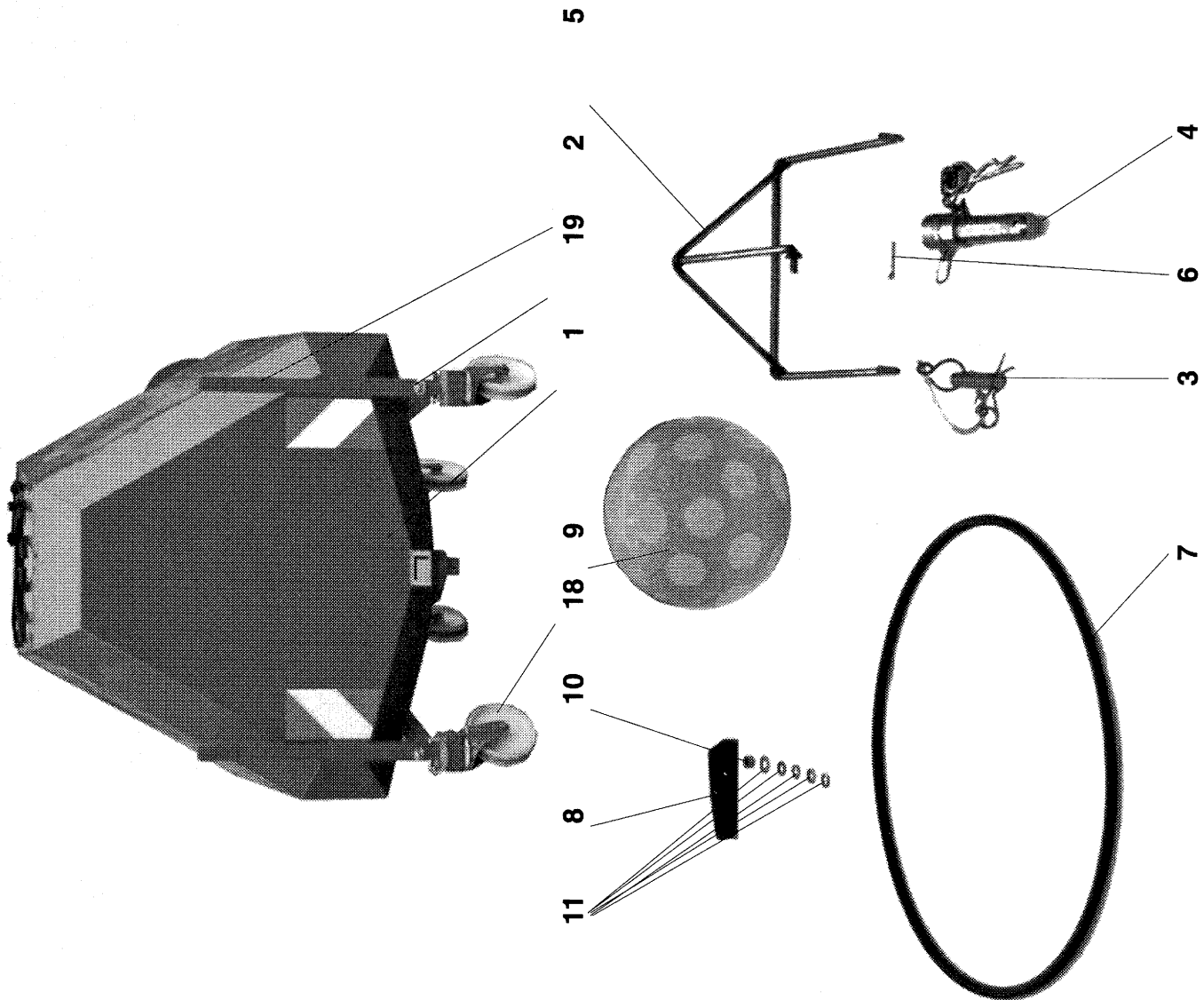
**Fig. 10**



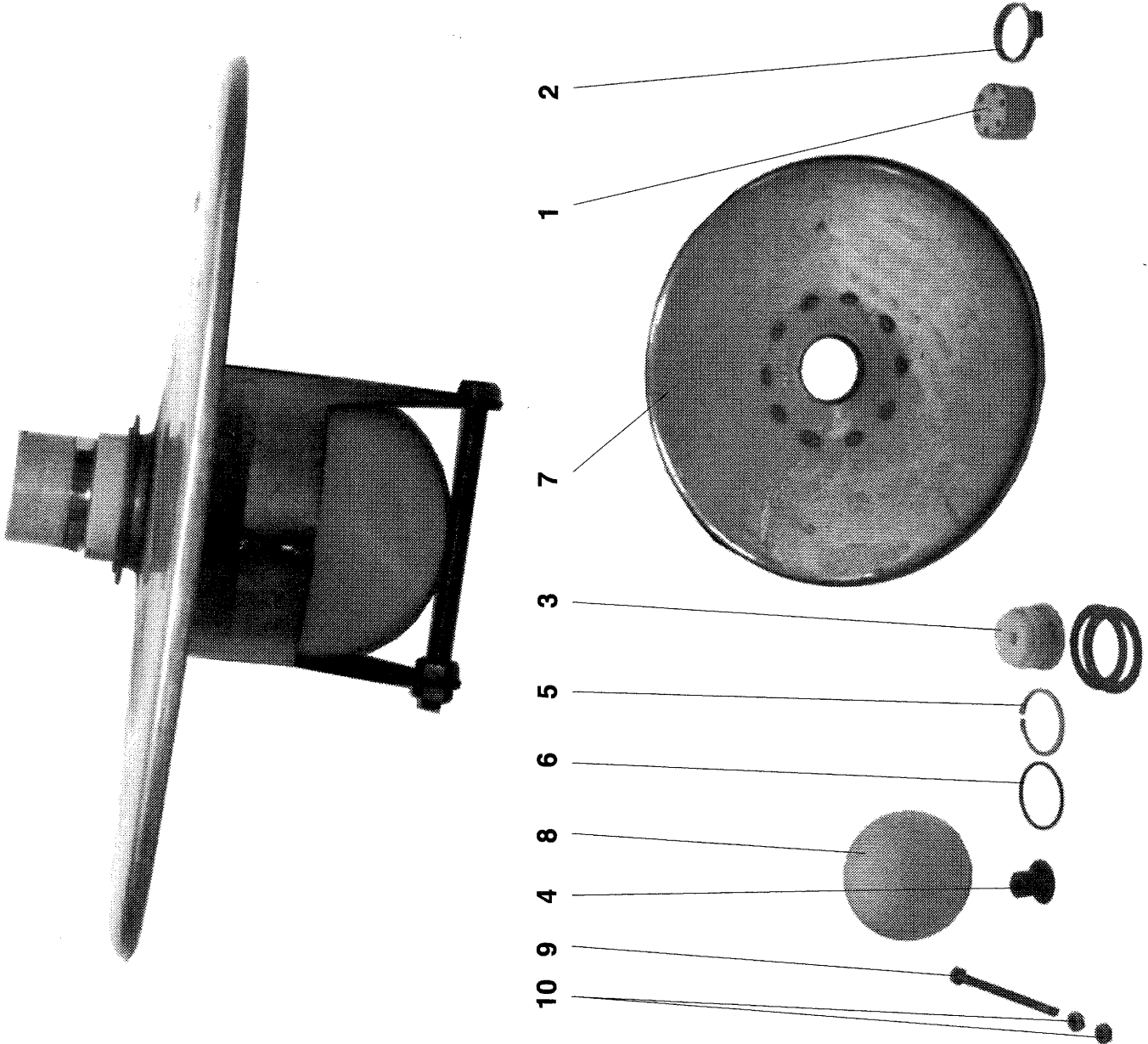
**Fig. 11**



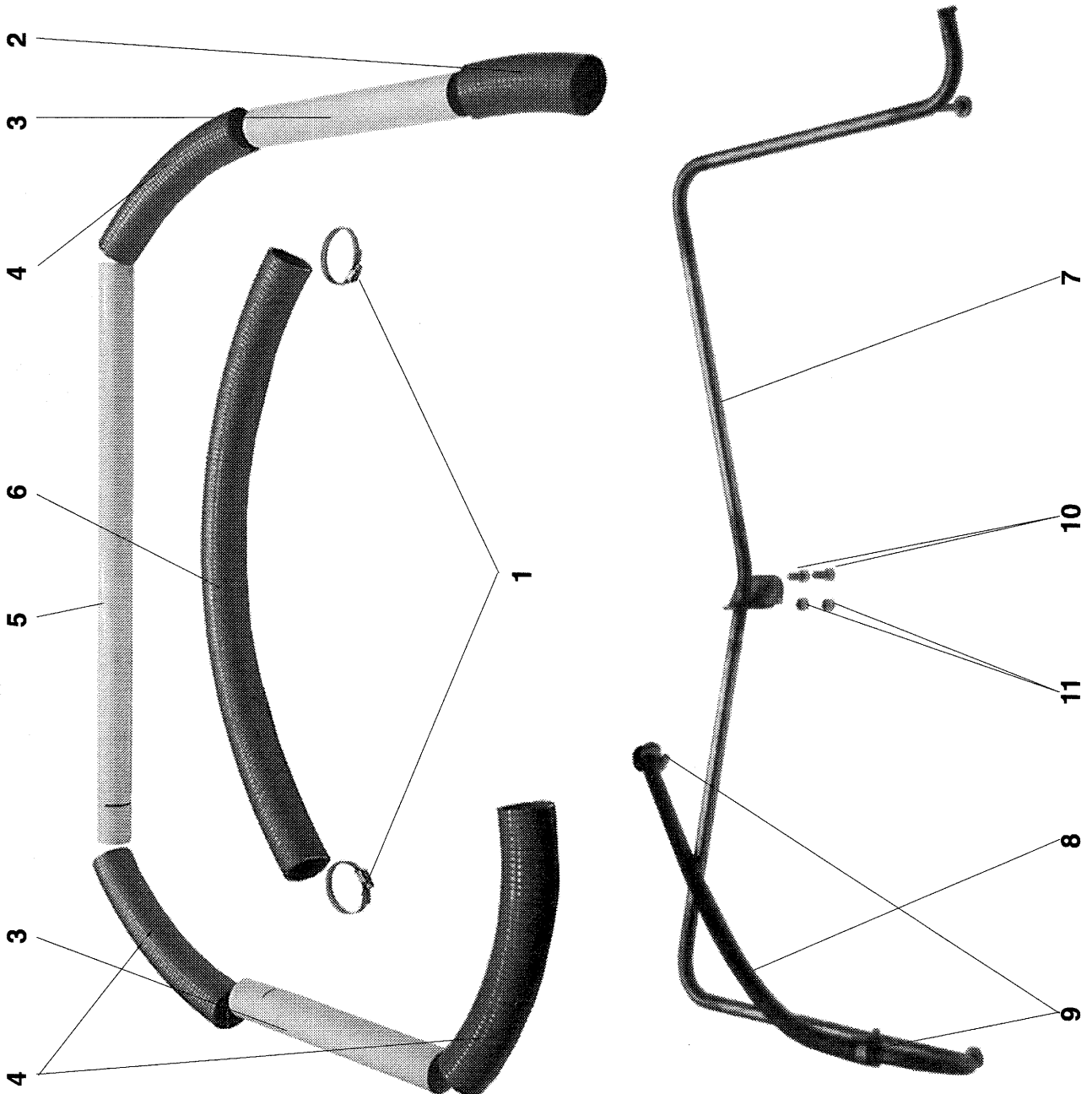
**Fig. 1**

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**Fig. 2**

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**Fig. 3**

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**Fig. 4**

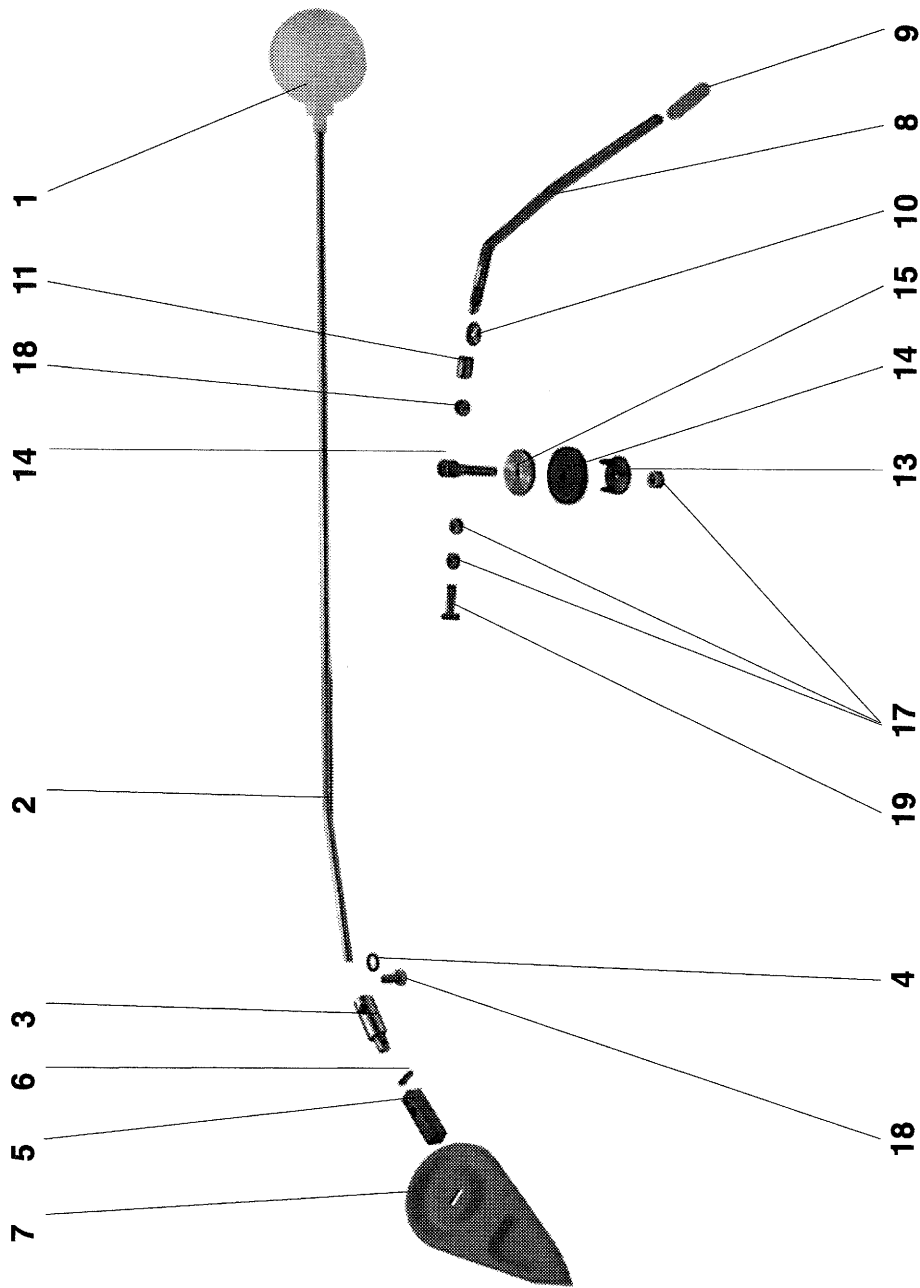
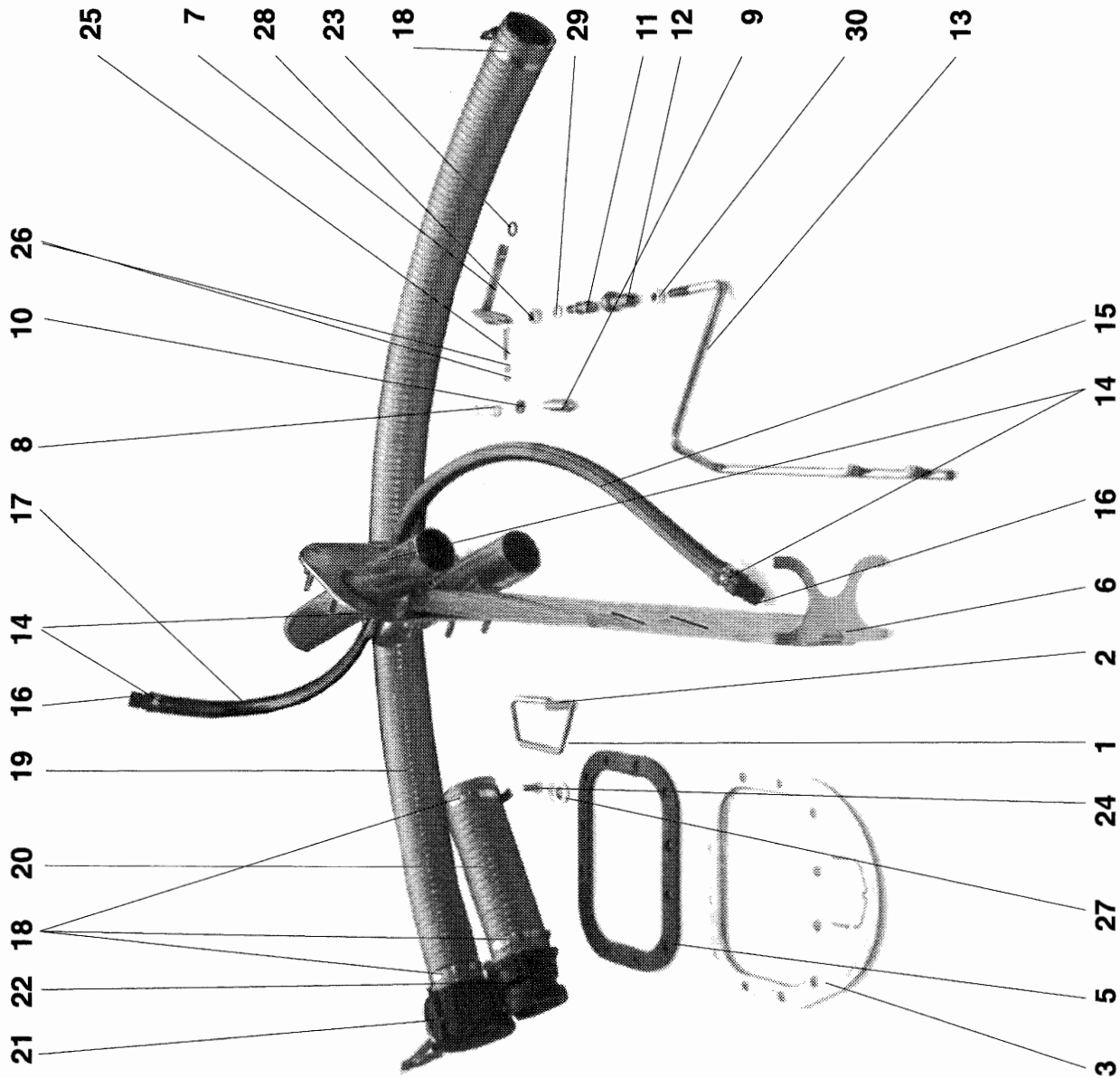
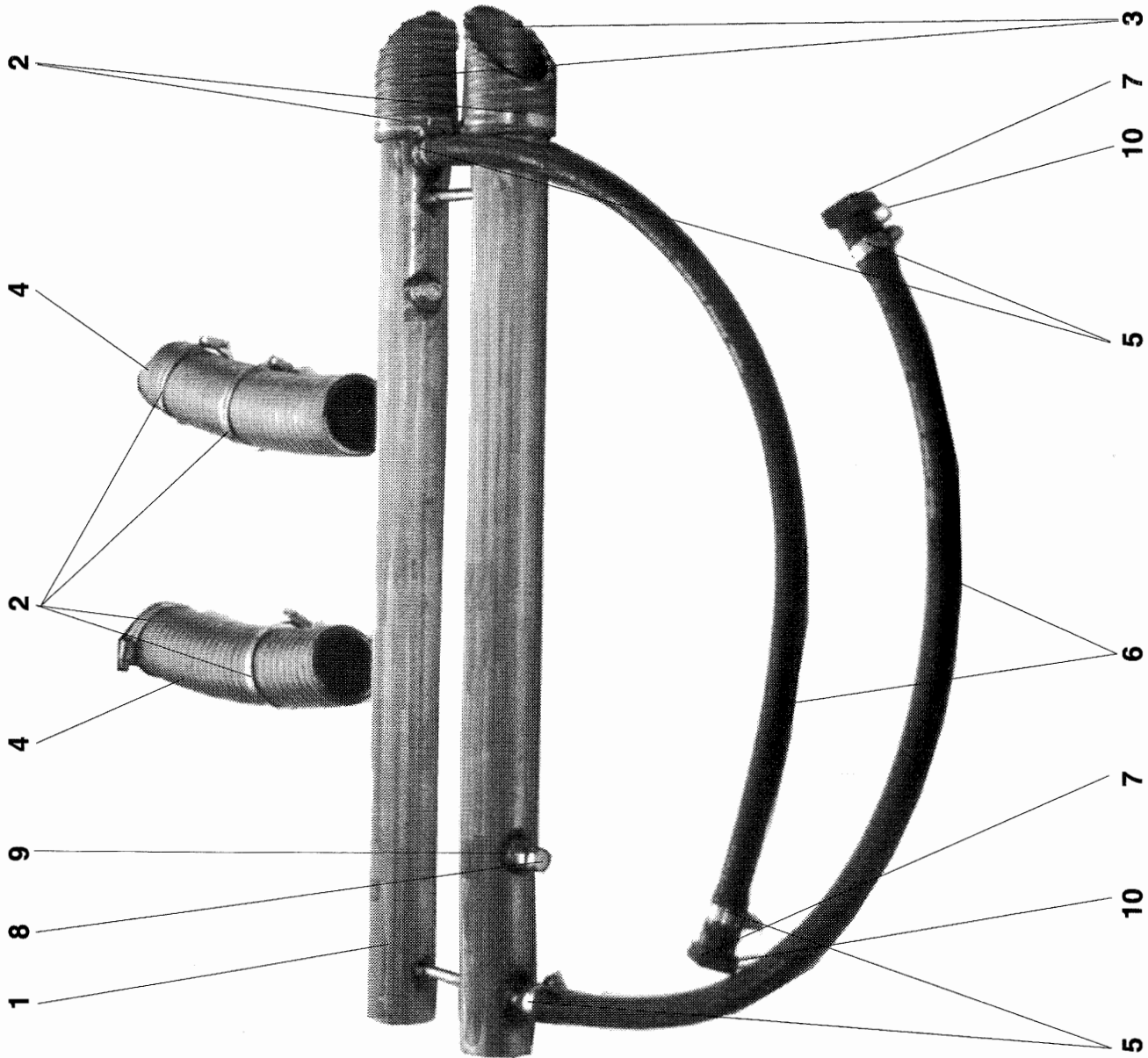
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Fig. 5

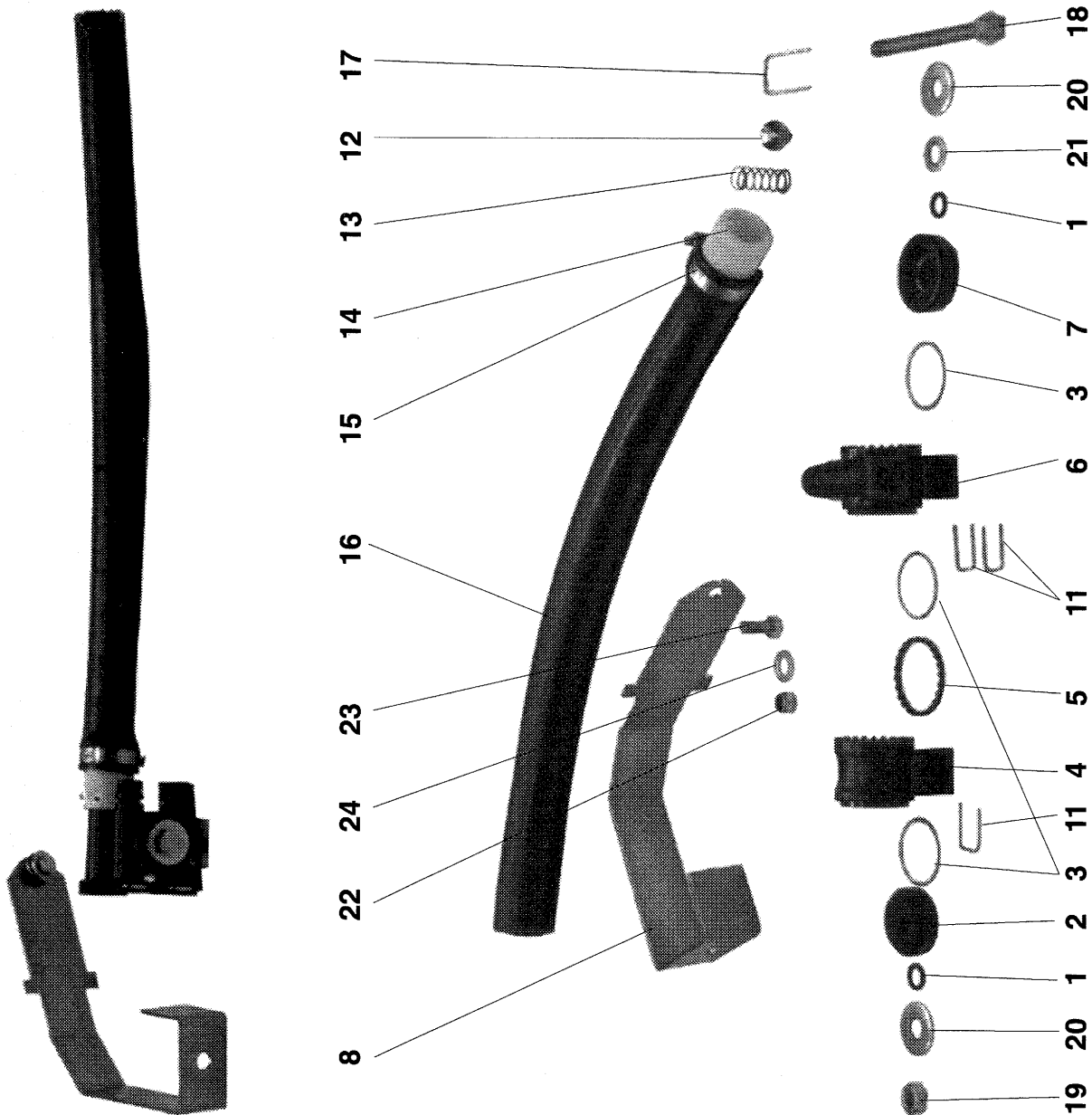
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2	KB 014	1	
3	915 058	1	
4	914 597	1	
5	915 059	1	
6	914 526	1	
7	914 529	1	
8	HB 054	1	
9	914 523	1	
10	915 060	1	
11	1 627 100	1	
12	EL 008	1	
13	914 545	1	
14	KE 004	4	
15	914 524	1	
16	7 600 300	2	
17	914 525	1	
18	KE 009	4	
19	915 061	1	
20	915 062	1	
21	GD 072	1	
22	GD 073	1	
23	FC 050	1	
24	DC 028	1	933 M8x16 A2-70
25	DC 159	1	933 M5x35 A2-70
26	DE 135	2	934 M5 A2-70
27	DF 045	2	125 13x24x2,5 A2
28	DE 115	1	439B M10 04 A2G
29	DF 209	1	128A 10 A2
30	DE 036	1	934 M10 A2-70



**Fig. 6**

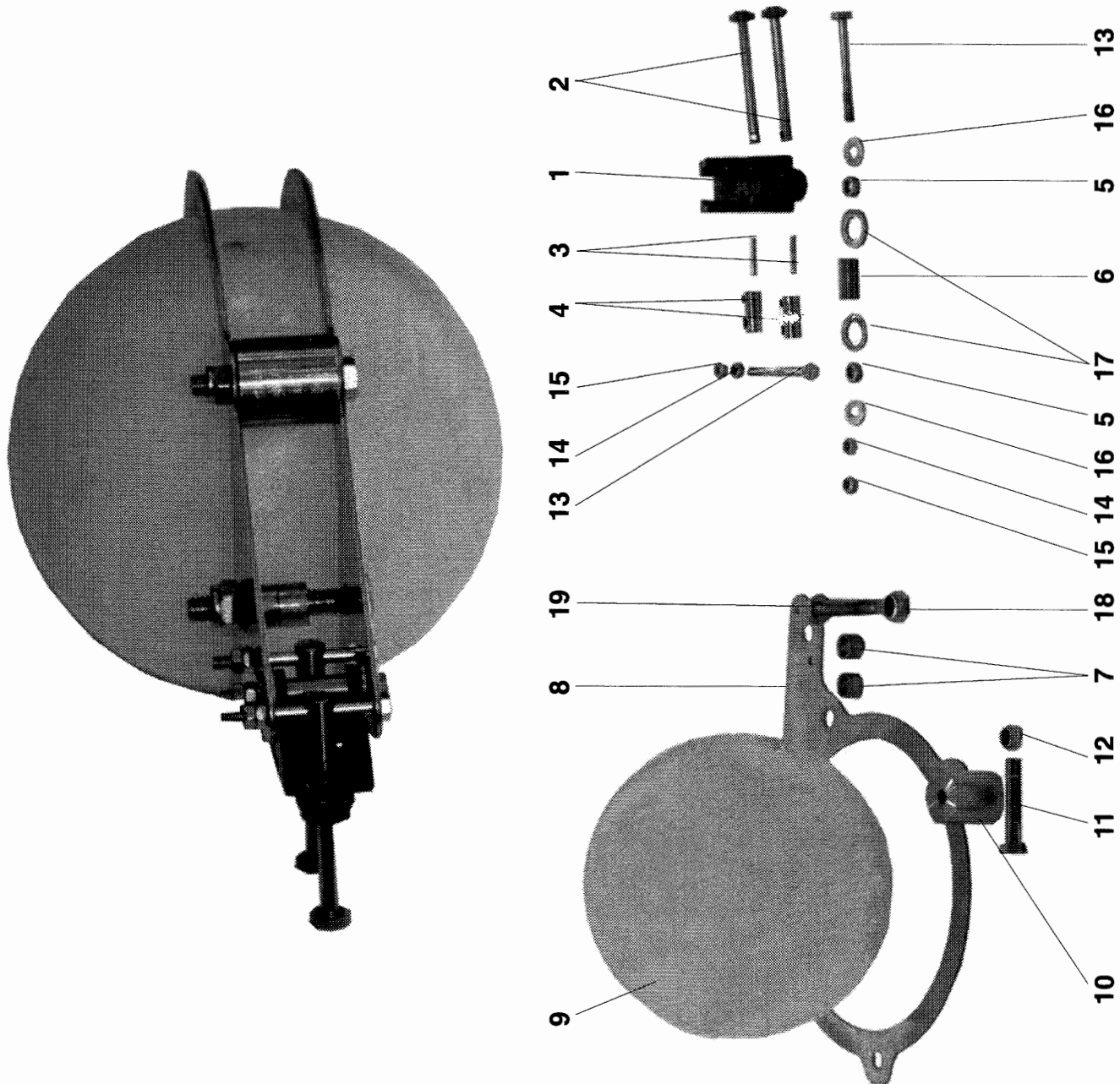
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**Fig. 7**

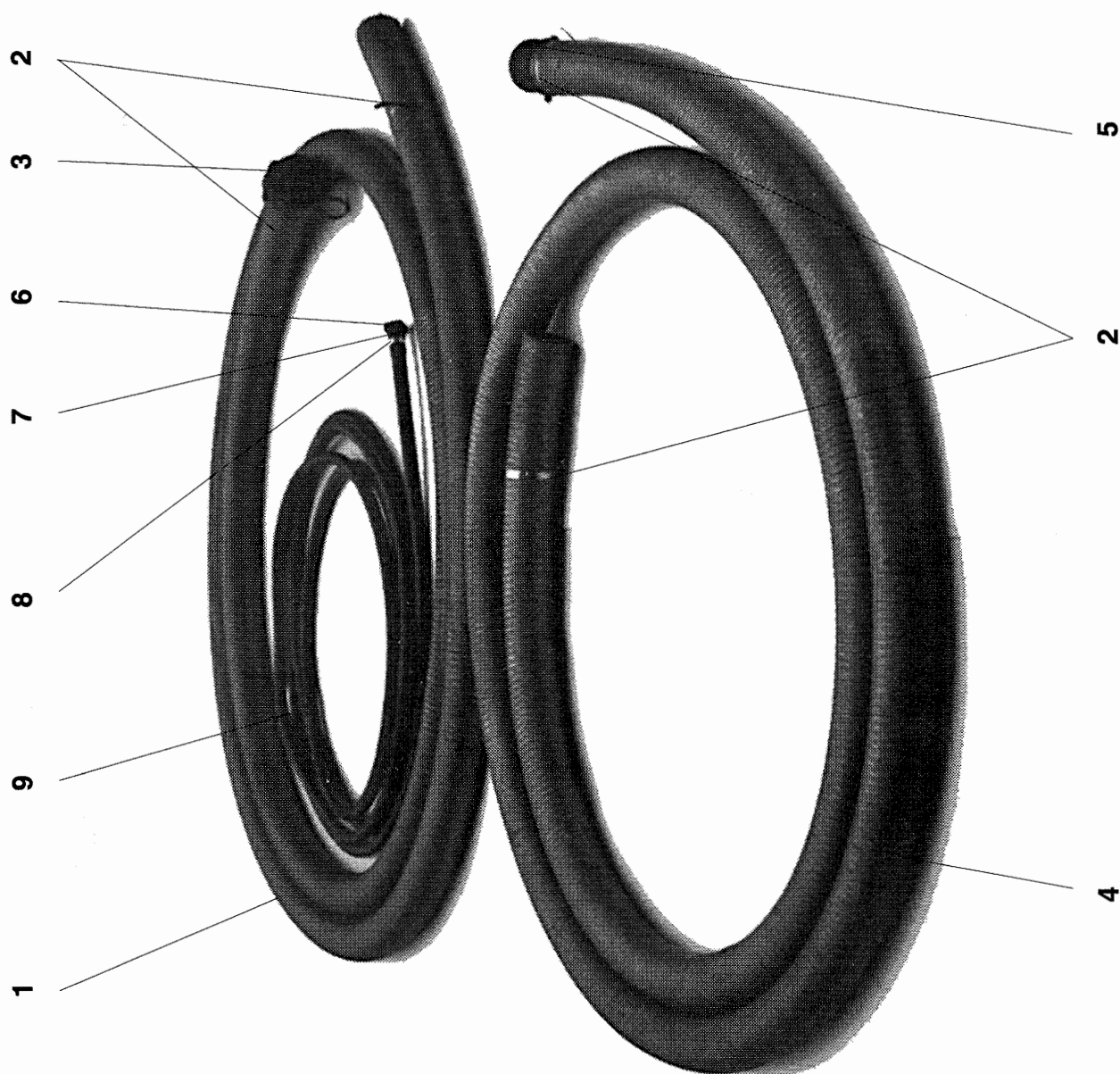
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**Fig. 8**

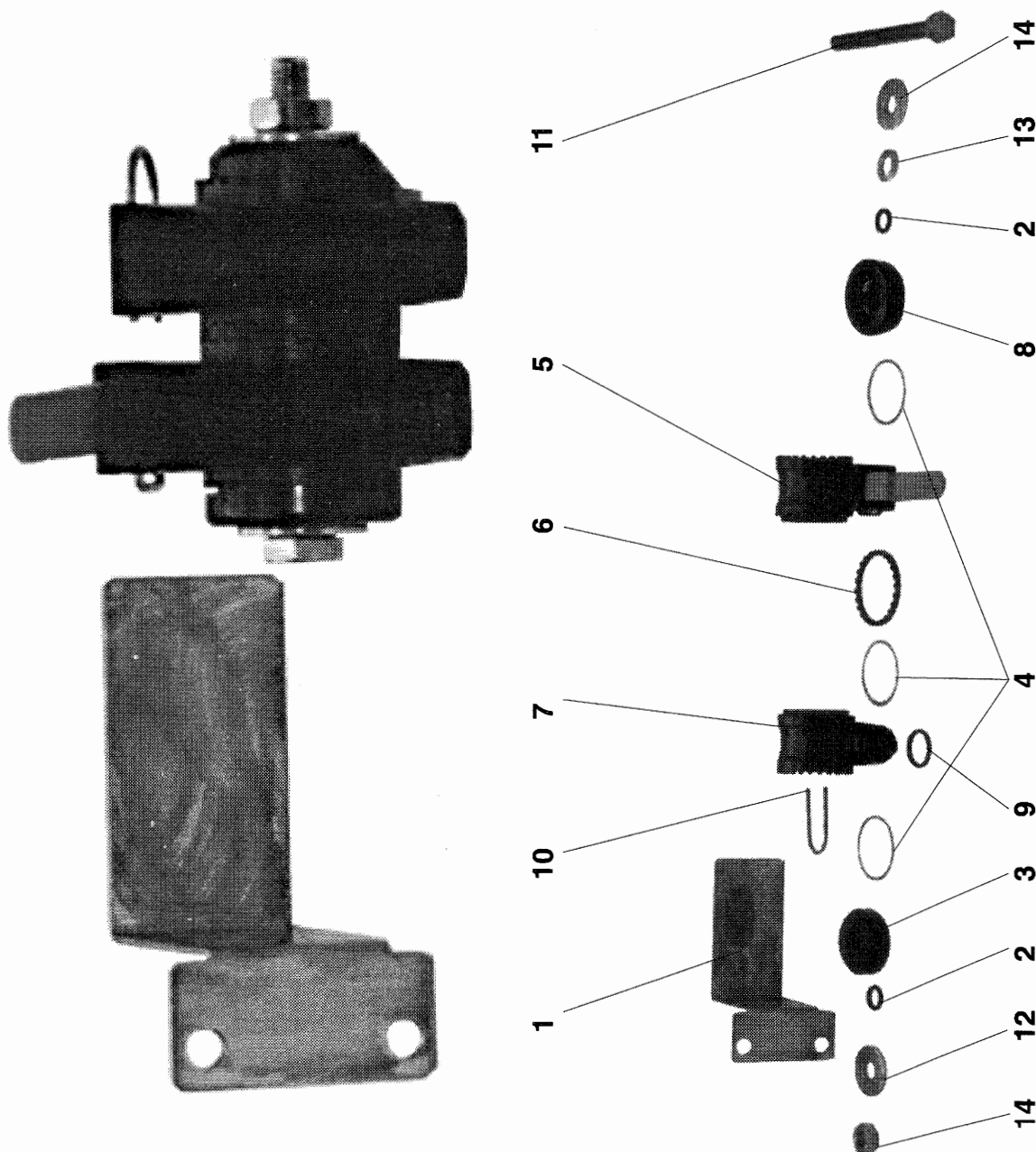
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2	ZF 256	2	
3	ZF 256	2	
4	914 542	2	
5	914 543	2	
6	914 544	1	
7	914 521	2	
8	914 540	2	
9	IC 058	1	
10	914 541	3	
11	DC 203	3	933 M8x50 A2-70
12	DE 088	3	985 M8 A2-70
13	DC 212	3	933 M5x45 A2-70
14	DE 135	3	934 M5 A-70
15	DE 168	3	980V M5 A2-70
16	DF 207	2	9021 5,3x15x1,6 A2
17	DF 033	2	125 10,5x21x2 A2
18	DE 189	1	985 M10 A2-70
19	DC 077	1	933 10x55 A2-70



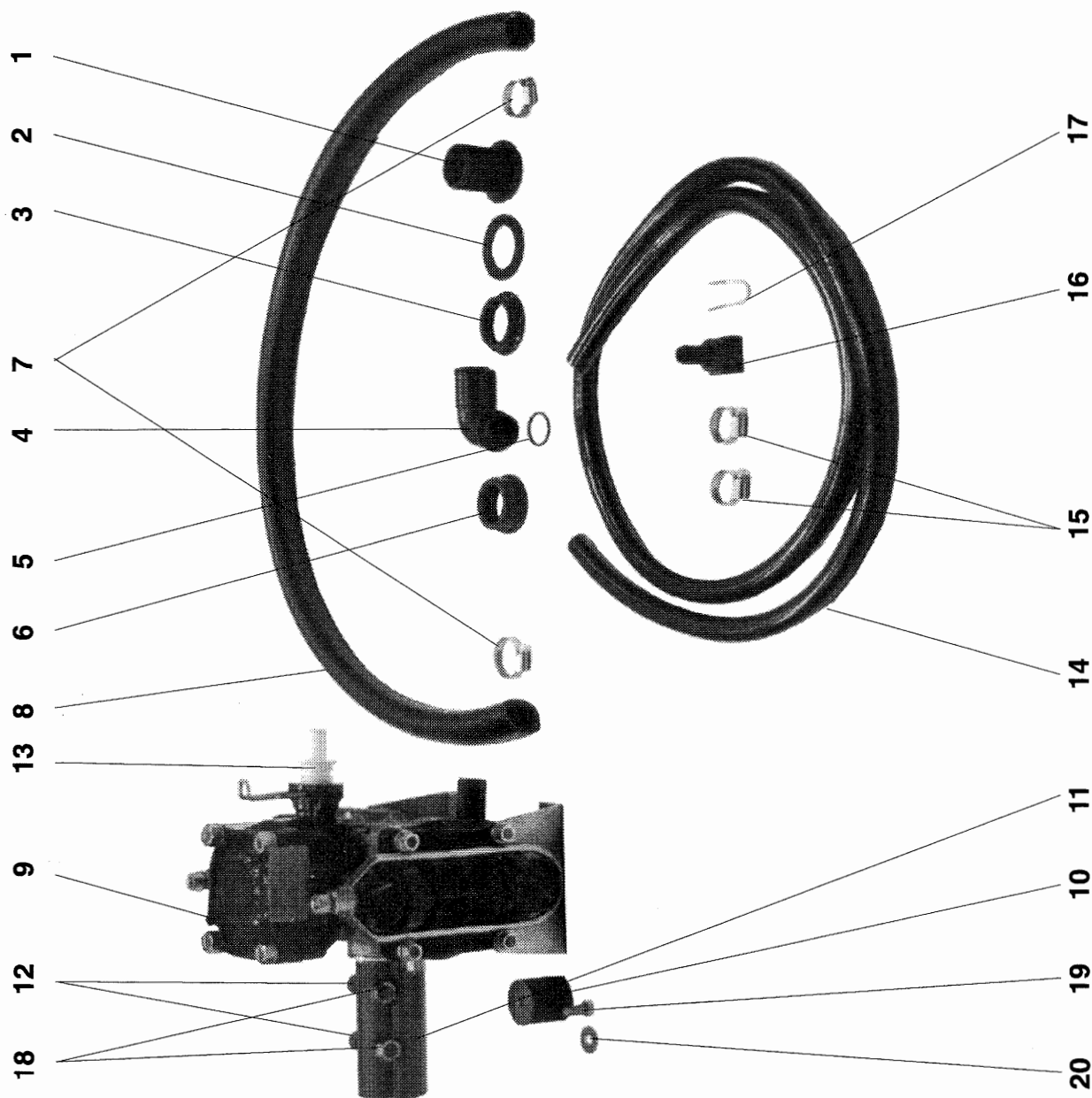
**Fig. 9**

[illegible]

**Fig. 10**

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**Fig. 11**

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