

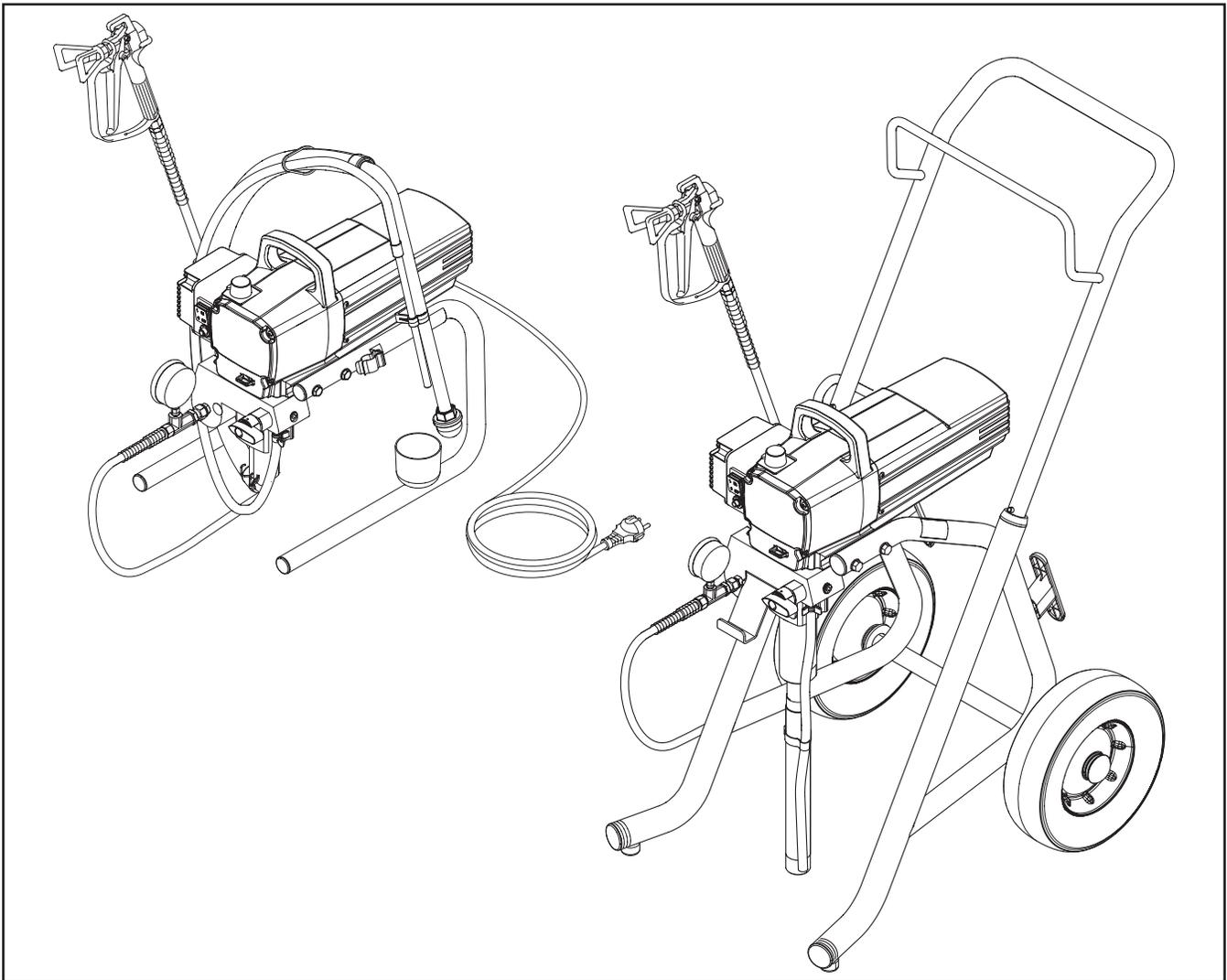
GB

Operating manual



# Performance Series 750e

Airless high-pressure spraying unit



**Performance Series 750e**

# Warning!

**Attention: Danger of injury by injection!**

**Airless units develop extremely high spraying pressures.**

**1**

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



Never point the spray gun at yourself, other persons or animals. Never use the spray gun without safety guard.



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



**2**

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

1. Faulty units must not be used.
2. Secure Titan spray gun using the safety catch on the trigger.
3. Ensure that the unit is properly earthed. The connection must take place through a correctly earthed two-pole and earth socket outlet.
4. Check allowable operating pressure of high-pressure hose and spray gun.
5. Check all connections for leaks.



**3**

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



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

1. Release the pressure from spray gun and hose.
2. Secure the Titan spray gun using the safety catch on the trigger
3. Switch off unit.



# Be safety-conscious!

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# 1. Safety regulations for Airless spraying

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



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



Attention

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



A hazard symbol such as this one refers to a specific, task-related risk. Be sure to heed the safeguard.



Notes give important information which should be given special attention.

	<p><b>HAZARD: INJECTION INJURY</b> A high pressure stream produced by this equipment can pierce the skin and underlying tissues, leading to serious injury and possible amputation. <b>DO NOT TREAT AN INJECTION INJURY AS A SIMPLE CUT! Injection can lead to amputation. See a physician immediately.</b> The maximum operating range of the unit is 214 bar (21.4 MPa, 3100 PSI) fluid pressure.</p>
	<p>The maximum operating range of the unit is 214 bar (21.4 MPa, 3100 PSI) fluid pressure.</p>
	<p><b>PREVENTION:</b></p>
	<ul style="list-style-type: none"> <li>NEVER aim the gun at any part of the body.</li> <li>NEVER allow any part of the body to touch the fluid stream. DO NOT allow body to touch a leak in the fluid hose.</li> <li>NEVER put your hand in front of the gun. Gloves will not provide protection against an injection injury.</li> </ul>
<p>0 bar</p>	<ul style="list-style-type: none"> <li>ALWAYS lock the gun trigger, shut the fluid pump off and release all pressure before servicing, cleaning the tip guard, changing tips, or leaving unattended. Pressure will not be released by turning off the engine. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure.</li> </ul>
	<ul style="list-style-type: none"> <li>ALWAYS keep tip guard in place while spraying. The tip guard provides some protection but is mainly a warning device.</li> <li>NEVER use a spray gun without a working trigger lock and trigger guard in place.</li> <li>ALWAYS remove the spray tip before flushing or cleaning the system.</li> </ul>
	<ul style="list-style-type: none"> <li>The paint hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin. Inspect the hose before each use.</li> </ul>
	<ul style="list-style-type: none"> <li>All accessories must be rated at or above the maximum operating pressure range of the sprayer. This includes spray tips, guns, extensions, and hose.</li> </ul>

	<p><b>NOTE TO PHYSICIAN:</b> Injection into the skin is a traumatic injury. It is important to treat the injury as soon as possible. <b>DO NOT delay treatment to research toxicity. Toxicity is a concern with some coatings injected directly into the blood stream. Consultation with a plastic surgeon or reconstructive hand surgeon may be advisable.</b></p>
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	<p><b>HAZARD: EXPLOSION OR FIRE</b> Solvent and paint fumes can explode or ignite. Severe injury and/or property damage can occur.</p>
	<p><b>PREVENTION:</b></p> <ul style="list-style-type: none"> <li>Provide extensive exhaust and fresh air introduction to keep the air within the spray area free from accumulation of flammable vapors.</li> <li>Avoid all ignition sources such as static electricity sparks, electrical appliances, flames, pilot lights, hot objects, and sparks from connecting and disconnecting power cords or working light switches.</li> <li>Plastic can cause static sparks. Never hang plastic to enclose spray area. Do not use plastic drop cloths when spraying flammable materials.</li> <li>Always flush unit into separate metal container, at low pump pressure, with spray tip removed. Hold gun firmly against side of container to ground container and prevent static sparks.</li> </ul>
	<ul style="list-style-type: none"> <li>Do not smoke in spray area.</li> <li>Fire extinguisher must be present and in good working order.</li> <li>Place sprayer at least 6.1 m (20 feet) from the spray object in a well ventilated area (add more hose if necessary). Flammable vapors are often heavier than air. Floor area must be extremely well ventilated. The pump contains arcing parts that emit sparks and can ignite vapors.</li> </ul>
	<ul style="list-style-type: none"> <li>The equipment and objects in and around the spray area must be properly grounded to prevent static sparks.</li> <li>Use only conductive or earthed high pressure fluid hose. Gun must be earthed through hose connections.</li> <li>Power cord must be connected to a grounded circuit (electric units only).</li> <li>The unit must be connected to an earthed object. Use the green earthing wire to connect the unit to a water pipe, steel beam, or other electrically earthed surface.</li> </ul>
	<ul style="list-style-type: none"> <li>Follow material and solvent manufacturer's warnings and instructions. Be familiar with the coating material's MSDS sheet and technical information to ensure safe use.</li> <li>Do not use materials with a flashpoint below 21° C (70° F). Flashpoint is the temperature at which a fluid can produce enough vapors to ignite.</li> <li>Use lowest possible pressure to flush equipment.</li> </ul>

	<p><b>HAZARD: EXPLOSION HAZARD DUE TO INCOMPATIBLE MATERIALS</b>                  Will cause severe injury or property damage.</p>
	<p><b>PREVENTION:</b></p> <ul style="list-style-type: none"> <li>• Do not use materials containing bleach or chlorine.</li> <li>• Do not use halogenated hydrocarbon solvents such as methylene chloride and 1,1,1 - trichloroethane. They are not compatible with aluminum and may cause an explosion. If you are unsure of a material's compatibility with aluminum, contact your coating's supplier.</li> </ul>

	<p><b>HAZARD: GENERAL</b>                  This product can cause severe injury or property damage.</p>
	<p><b>PREVENTION:</b></p> <ul style="list-style-type: none"> <li>• Read all instructions and safety precautions before operating equipment.</li> <li>• Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.</li> <li>• Pulling the trigger causes a recoil force to the hand that is holding the spray gun. The recoil force of the spray gun is particularly powerful when the tip has been removed and a high pressure has been set on the airless pump. When cleaning without a spray tip, set the pressure control knob to the lowest pressure.</li> <li>• Use only manufacturer authorized parts. User assumes all risks and liabilities when using parts that do not meet the minimum specifications and safety devices of the pump manufacturer.</li> </ul>
	<ul style="list-style-type: none"> <li>• Before each use, check all hoses for cuts, leaks, abrasion or bulging of cover. Check for damage or movement of couplings. Immediately replace the hose if any of these conditions exist. Never repair a paint hose. Replace it with another earthed high-pressure hose.</li> </ul>
	<ul style="list-style-type: none"> <li>• Make sure power cord, air hose and spray hoses are routed in such a manner to minimize slip, trip and fall hazard.</li> <li>• Clean up all material and solvent spills immediately to prevent slip hazard.</li> </ul>
	<ul style="list-style-type: none"> <li>• ALWAYS follow the material manufacturer's instructions for safe handling of paint and solvents.</li> </ul>
	<ul style="list-style-type: none"> <li>• Do not use this unit in workshops that are covered under the explosion prevention regulations.</li> </ul>
	<ul style="list-style-type: none"> <li>• Always unplug cord from outlet before working on equipment (electric units only).</li> <li>• Always keep the power cord plug in sight during usage to prevent any accidental shutdown or startup.</li> </ul>
	<ul style="list-style-type: none"> <li>• Wear ear protection. This unit can produce noise levels above 85 dB(A).</li> </ul>
	<ul style="list-style-type: none"> <li>• Device weighs in excess of 18 kg. Two-person lift is required.</li> </ul>
	<ul style="list-style-type: none"> <li>• Never leave this equipment unattended. Keep away from children or anyone not familiar with the operation of airless equipment.</li> <li>• Do not move unit while unit is running.</li> <li>• Do not spray on windy days.</li> </ul>

	<p><b>HAZARD: HAZARDOUS VAPORS</b>                  Paints, solvents, insecticides, and other materials can be harmful if inhaled or come in contact with body. Vapors can cause severe nausea, fainting, or poisoning.</p>
  	<p><b>PREVENTION:</b></p> <ul style="list-style-type: none"> <li>• Use a respirator or mask if vapors can be inhaled. Read all instructions supplied with the mask to be sure it will provide the necessary protection.</li> <li>• Wear protective eyewear.</li> <li>• Wear protective clothing as required by coating manufacturer.</li> </ul>

### 1.1 Earthing Instructions



Electric models must be earthed. In the event of an electrical short circuit, earthing reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having an earthing wire with an appropriate earthing plug. The plug must be plugged into an outlet that is properly installed and earthed in accordance with all local codes and ordinances.



**DANGER — Improper installation of the earthing plug can result in a risk of electric shock. If repair or replacement of the cord or plug is necessary, do not connect the green earthing wire to either blade terminal. The wire with insulation having a green outer surface with or without yellow stripes is the earthing wire and must be connected to the earthing pin.**

Check with a qualified electrician or serviceman if the earthing instructions are not completely understood, or if you are in doubt as to whether the product is properly earthed. Do not modify the plug provided. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.

## 2. General view of application

### 2.1 Application

All painting jobs in the workshop and on the building site, small dispersion work with the spray gun or internally fed Airless roller.

#### Examples of objects of spraying

Doors, door frames, balustrades, furniture, wooden cladding, fences radiators (heating) and steel parts, internal ceilings and walls.

### 2.2 Coating materials

#### Processible coating materials



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

Dilutable lacquers and paints or those containing solvents, two-component coating materials, dispersions, latex paints.

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

#### Filtering

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

Stir coating material before commencement of work.



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

#### Viscosity

With this unit it is possible to process highly viscous coating materials of up to around 25.000 MPa·s.

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

#### Two-component coating material

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

#### Coating materials with sharp-edged additional materials

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

## 3. Description of unit

### 3.1 Airless process

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

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

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

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

### 3.2 Functioning of the unit

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

Titan Performance Series units are electrically driven high-pressure spraying units.

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

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

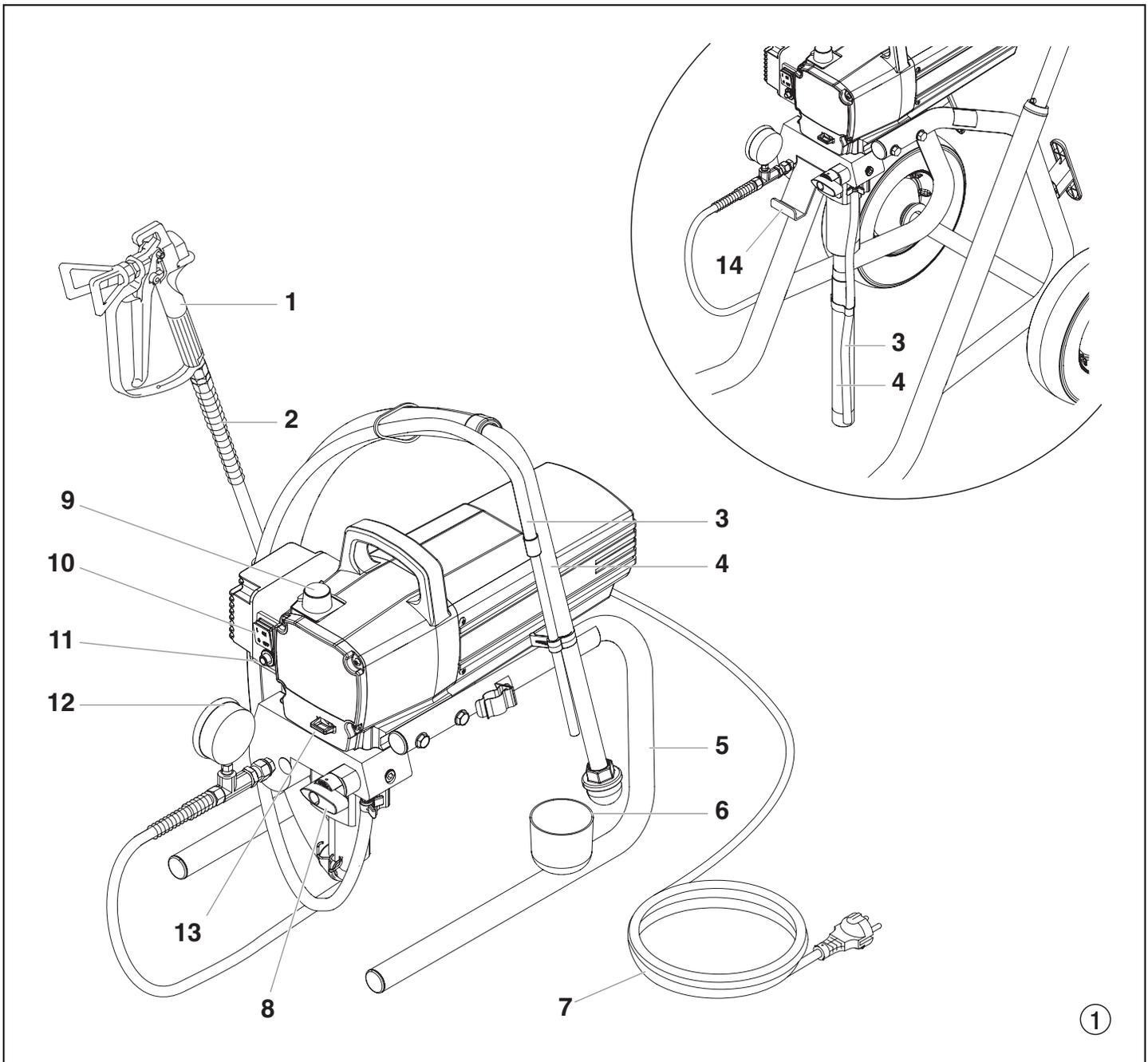
The coating material flows under high pressure through the high-pressure hose to the spray gun. When the coating material exits from the tip it atomizes.

The pressure regulator controls the volume and the operating pressure of the coating material.

### 3.3 Legend for explanatory diagram Performance Series 750e

- |                      |  |
|----------------------|--|
| 1 Spray gun          | 9 Pressure control knob  |
| 2 High-pressure hose | 10 ON/OFF switch   |
| 3 Return hose        | 11 Circuit breaker   |
| 4 Suction hose       | 12 Pressure gauge  |
| 5 Frame              | 13 Oil cup for Piston Lube (Piston Lube prevents increased wear of the packings) |
| 6 Drip cup           | 14 Pail bracket (cart model only)  |
| 7 Power cord         |  |
| 8 Relief valve       |  |
- Lever position vertical – PRIME (↻ circulation)  
 Lever position horizontal – SPRAY (→)

### 3.4 Explanatory diagram Performance Series 750e



### 3.5 Technical data

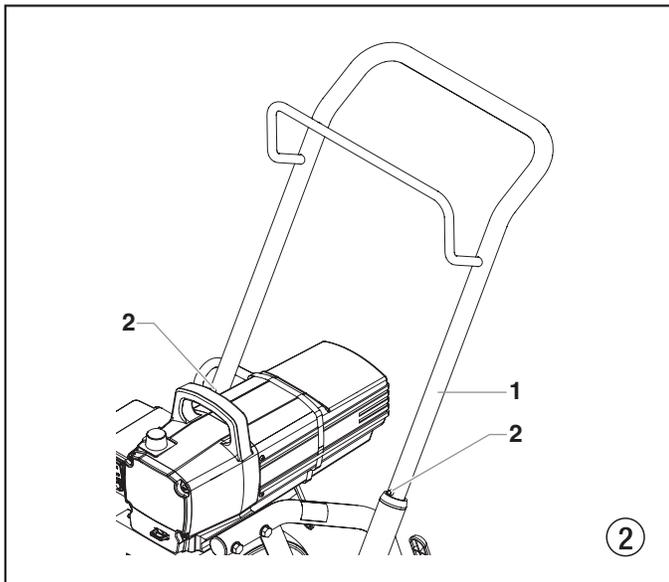
<b>Voltage:</b>	110 Volt AC, 50/60 Hz
<b>Max. current consumption:</b>	12.5 A @ 110VAC
<b>Power cord:</b>	3 x 1.5 mm <sup>2</sup> – 6 m
<b>Acceptance capacity:</b>	950 Watt
<b>Max. operating pressure:</b>	214 bar (21,4 MPa)
<b>Volume flow at 12 MPa (120 bar) with water:</b>	2.46 l/min
<b>Max tip size:</b>	0.027 inch – 0.68 mm
<b>Max. temperature of the coating material:</b>	43°C
<b>Max viscosity:</b>	25.000 mPa·s
<b>Weight:</b>	
Stand:	21.2 kg
Cart:	29.5 kg
<b>Special high-pressure hose:</b>	6,35 mm, 15 m-18 NPSM
<b>Dimensions (L X W X H):</b>	
Stand:	480 x 360 x 405 mm
Cart:	615 x 530 x 730 mm
<b>Max sound pressure level:</b>	80 dB (A) *

\* Place of measuring: 1 m in distance from the unit and 1.6 m above the floor, 12 MPa (120 bar) operating pressure, reverberant floor.

### 3.6 Transportation

#### Pushing or pulling the unit

Pull out the handle (Fig. 2, Item 1) until it will come no further. Insert the handle – push the buttons (2) on the spars, and then push in the handle.



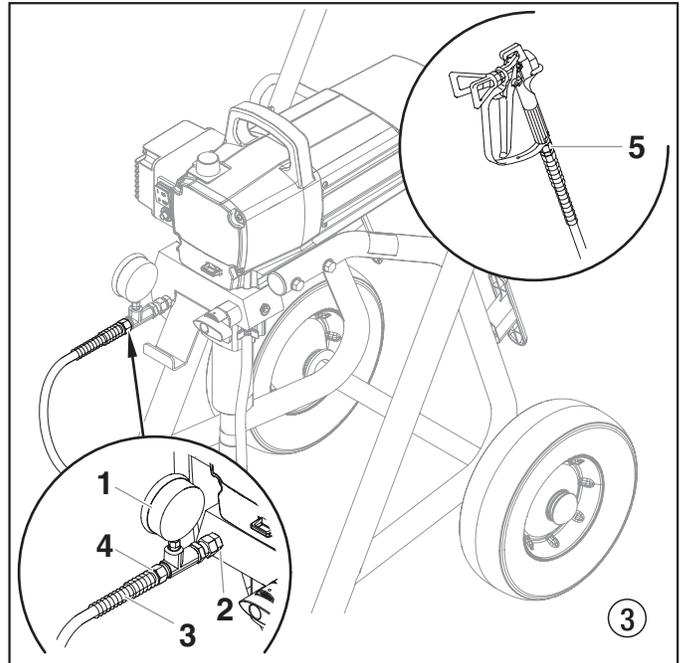
### 3.7 Transportation in vehicle

Secure the unit with a suitable fastening.

## 4. Starting operation

### 4.1 High-pressure hose, spray gun and separating oil

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

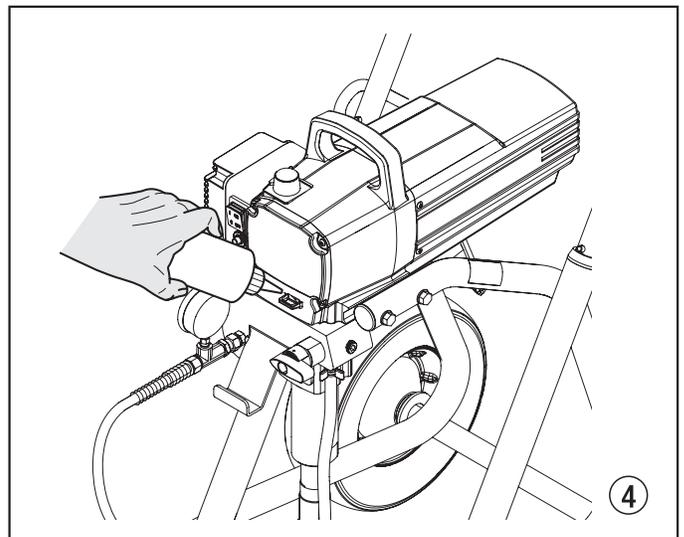


5. Fill the oil cup with Piston Lube (Fig. 4). Do not use too much Piston Lube, i.e. ensure that no Piston Lube drips into the coating material container.



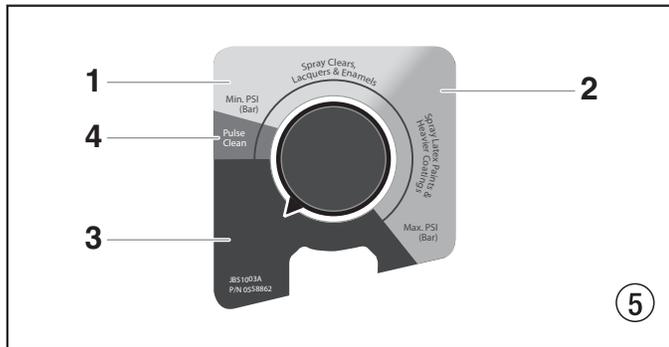
Attention

**Piston Lube prevents increased wear and tear to the packings.**



## 4.2 Pressure control knob settings (Fig. 5)

1. Yellow zone (Minimum Bar - 115 Bar)
2. Green zone (115 - 230 Bar)
3. Black zone (0 bar, no pressure generation)
4. Red zone (Pulse Clean)



## 4.3 Connection to the mains network

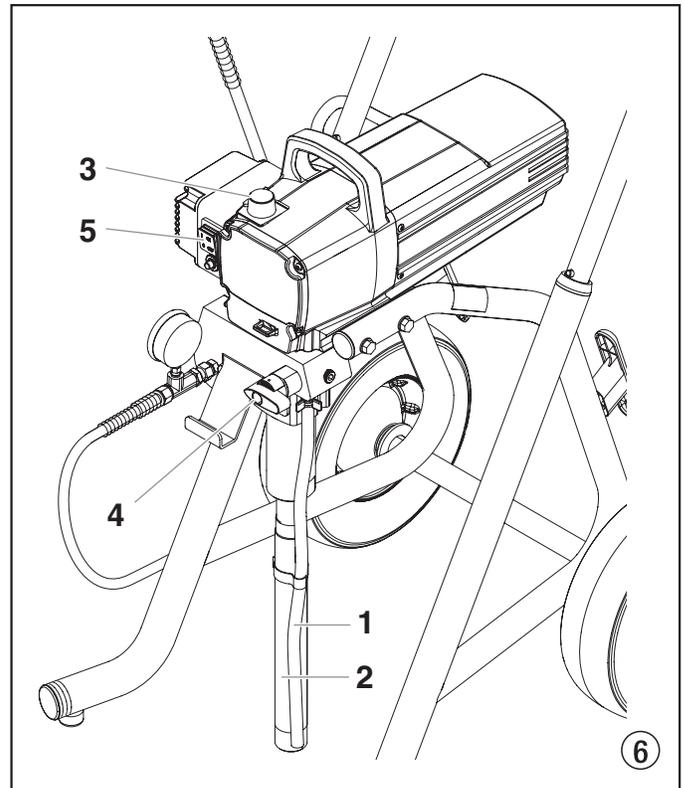


**The unit must be connected to an appropriately-grounded safety outlet.**

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

## 4.4 Cleaning preserving agent when starting-up of operation initially

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



## 4.5 Taking the unit into operation with coating material

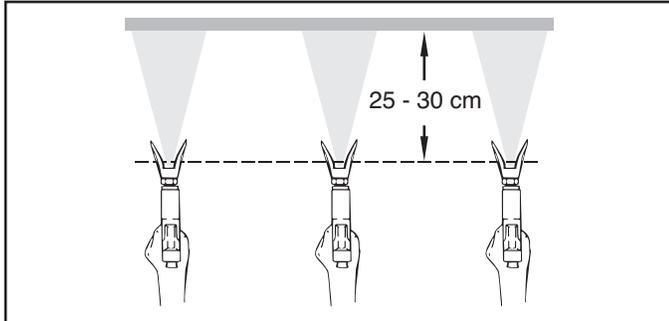
1. Immerse the suction tube (Fig. 6, Item 2) and return hose (1) into the coating material container.
2. Turn the pressure control knob (3) to minimum pressure in the yellow zone.
3. Open the relief valve (4), valve position PRIME (circulation).
4. Switch the unit (5) ON.
5. Wait until the coating material exudes from the return hose.
6. Close the relief valve, valve position SPRAY (spray).
7. Trigger the spray gun several times and spray into a collecting container until the coating material exits the spray gun without interruption.
8. Increase the pressure by slowly turning up the pressure control knob.  
Check the spray pattern and increase the pressure until the atomization is correct.  
Always turn the pressure control knob to the lowest setting with good atomization.
9. The unit is ready to spray.

## 5. Spraying technique

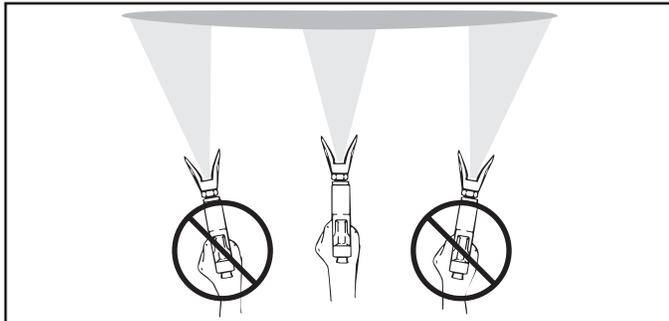


**Injection hazard. Do not spray without the tip guard in place. NEVER trigger the gun unless the tip is completely turned to either the spray or the unclog position. ALWAYS engage the gun trigger lock before removing, replacing or cleaning tip.**

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

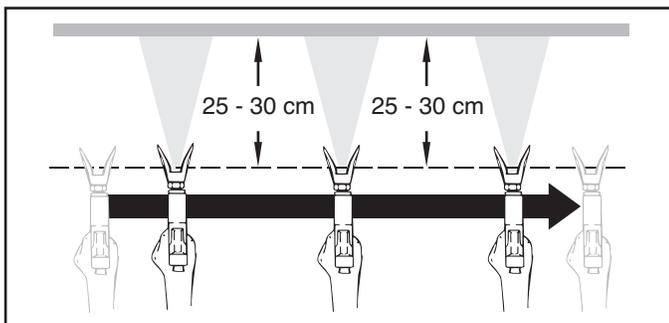


Keep the spray gun at right angles to the surface. This means moving your entire arm back and forth rather than just flexing your wrist.



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

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



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

## 6. Handling the high-pressure hose

Avoid sharp bending or kinking of the high-pressure hose. The smallest bending radius amounts to about 20 cm.

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



**Danger of injury through leaking high-pressure hose. Replace any damaged high-pressure hose immediately.**

**Never repair defective high-pressure hoses yourself!**

### 6.1 High-pressure hose

The unit is equipped with a high-pressure hose specially suited for piston pumps.



**Only use Titan original-high-pressure hoses in order to ensure functionality, safety and durability.**

## 7. Interruption of work

1. Open the relief valve, valve position PRIME (↻ circulation).
2. Switch the unit OFF.
2. Turn the pressure control knob to minimum pressure in the yellow zone.
4. Pull the trigger of the spray gun in order to release the pressure from the high-pressure hose and spray gun.
5. Secure the spray gun, refer to the operating manual of the spray gun.
6. If a standard tip is to be cleaned, see Page 19, Section 13.2.  
If a non-standard tip is installed, proceed according to the relevant operating manual.
7. Depending on the model, leave the suction tube or the suction hose and return hose immersed in the coating material or swivel or immerse it into a corresponding cleaning agent.



**Attention**

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

## 8. Cleaning the unit (shutting down)

A clean state is the best method of ensuring operation without problems. After you have finished spraying, clean the unit. Under no circumstances may any remaining coating material dry and harden in the unit.

The cleaning agent used for cleaning (only with an ignition point above 21 °C) must be suitable for the coating material used.

- **Secure the spray gun**, refer to the operating manual of the spray gun.

Clean and remove tip.

For a standard tip, refer to Page 19, Section 13.2.

If a non-standard tip is installed, proceed according to the relevant operating manual.

1. Remove suction hose from the coating material.
2. Close the relief valve, valve position SPRAY (→ spray).
3. Switch the unit ON.
4. Pull the trigger of the spray gun in order to pump the remaining coating material from the suction hose, high-pressure hose and the spray gun into an open container.



**The container must be earthed in case of coating materials which contain solvents.**



**Caution! Do not pump or spray into a container with a small opening (bunghole)! Refer to the safety regulations.**

5. Immerse suction hose with return hose into a container with a suitable cleaning agent.
6. Turn the pressure control knob to Pulse Clean in the red zone.
7. Open the relief valve, valve position PRIME (↻ circulation).
8. Pump a suitable cleaning agent in the circuit for a few minutes.
9. Close the relief valve, valve position SPRAY (→ spray).
10. Pull the trigger of the spray gun.
11. Pump the remaining cleaning agent into an open container until the unit is empty.
12. Switch the unit OFF.

### 8.1 Cleaning unit from outside



**First of all pull out mains plug from socket.**



**Danger of short circuit through penetrating water! Never spray down the unit with high-pressure or high-pressure steam cleaners.**

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

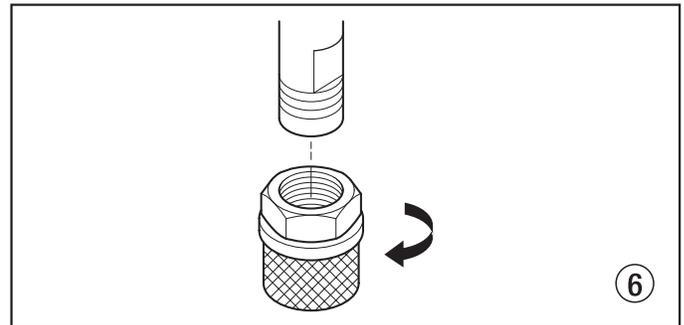
### 8.2 Suction filter (stand model only)



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

1. Screw off the filter (Fig. 6) from suction pipe.
2. Clean or replace the filter.

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



### 8.3 Cleaning the high-pressure filter

Clean the filter cartridge regularly.

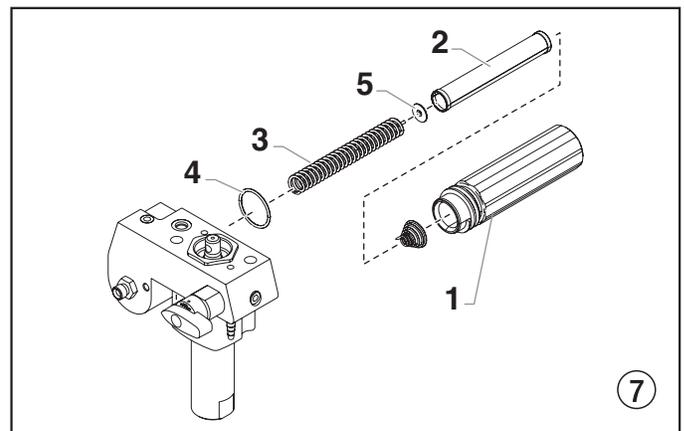
A soiled or clogged high-pressure filter can cause a poor spray pattern or a clogged tip.

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



**Unplug the power plug from the outlet.**

4. Unscrew the filter housing (Fig. 7, Item 1) with a strap wrench.
5. Pull the filter cartridge (2) from the bearing spring (3).
6. Clean all the parts with the corresponding cleaning agent. If necessary, replace the filter cartridge.
7. Check the O-ring (4), replace it if necessary.
8. Place the bearing ring (5) against the bearing spring (3). Slide the filter cartridge (2) over the bearing spring.
9. Screw in filter housing (1) and tighten it as far as possible with the strap wrench.



## 8.4 Cleaning the Airless spray gun

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

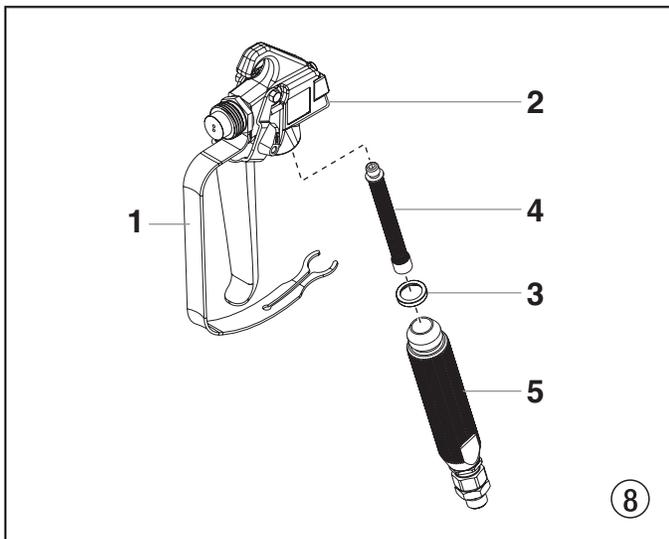
### Intake filter in Airless spray gun

1. Pull the bottom of the trigger guard forward (1) so that it comes loose from the handle assembly (5).
2. Loosen and remove the handle assembly (5) from the gun head (2).
3. Turning clockwise, unscrew the filter (4) from the gun body (2).



**Left-handed threads require turning the filter clockwise to remove.**

4. Turning counterclockwise, screw the new or cleaned filter into the gun body.
5. Make sure all the parts are clean and the handle seal (3) is in position inside the gun head.
6. Thread the handle assembly (5) into the gun head (2) until secure.
7. Snap the trigger guard (1) back onto the handle assembly (5).



## 9. Remedy in case of faults

Type of malfunction	Possible cause	Measures for eliminating the malfunction
A. Unit does not start	<ol style="list-style-type: none"> <li>No voltage applied.</li> <li>Pressure setting too low.</li> <li>ON/OFF switch defective.</li> </ol>	<ol style="list-style-type: none"> <li>Check voltage supply.</li> <li>Turn up pressure control knob.</li> <li>Replace.</li> </ol>
B. Unit does not draw in material	<ol style="list-style-type: none"> <li>Relief valve is set to SPRAY (☞ spray).</li> <li>Filter projects over the fluid level and sucks air.</li> <li>Filter clogged.</li> <li>Suction hose/suction tube is loose, i.e. the unit is sucking in outside air.</li> </ol>	<ol style="list-style-type: none"> <li>Set relief valve to PRIME (↻ circulation).</li> <li>Refill the coating material.</li> <li>Clean or replace the filter.</li> <li>Clean connecting points. Replace O-rings if necessary. Secure suction hose with retaining clip.</li> </ol>
C. Unit draws in material, but the pressure does not build up	<ol style="list-style-type: none"> <li>Tip heavily worn.</li> <li>Tip too large.</li> <li>Pressure setting too low.</li> <li>Filter clogged.</li> <li>Coating material flows through the return hose when the relief valve is in the SPRAY (☞ spray) position.</li> <li>Packings sticky or worn.</li> <li>Valve balls worn.</li> <li>Valve seats worn.</li> </ol>	<ol style="list-style-type: none"> <li>Replace</li> <li>Replace tip.</li> <li>Turn pressure control knob clockwise to increase.</li> <li>Clean or replace the filter.</li> <li>Remove and clean or replace relief valve.</li> <li>Remove and clean or replace packings.</li> <li>Remove and replace valve balls.</li> <li>Remove and replace valve seats.</li> </ol>
D. Coating material exits at the top of the fluid section	<ol style="list-style-type: none"> <li>Upper packing is worn.</li> <li>Piston is worn.</li> </ol>	<ol style="list-style-type: none"> <li>Remove and replace packing.</li> <li>Remove and replace piston.</li> </ol>
E. Increased pulsation at the spray gun	<ol style="list-style-type: none"> <li>Incorrect high-pressure hose type.</li> <li>Tip worn or too large.</li> <li>Pressure too high.</li> </ol>	<ol style="list-style-type: none"> <li>Only use Titan original-high-pressure hoses in order to ensure functionality, safety and durability.</li> <li>Replace tip.</li> <li>Turn pressure control knob to a lower number.</li> </ol>
F. Poor spray pattern	<ol style="list-style-type: none"> <li>Tip is too large for the coating material which is to be sprayed.</li> <li>Pressure setting incorrect.</li> <li>Volume too low.</li> <li>Coating material viscosity too high.</li> </ol>	<ol style="list-style-type: none"> <li>Replace tip.</li> <li>Turn pressure control knob until a satisfactory spraying pattern is achieved.</li> <li>Clean or replace all filters.</li> <li>Thin out according to the manufacturer's instructions.</li> </ol>
G. Unit loses power	<ol style="list-style-type: none"> <li>Pressure setting too low.</li> </ol>	<ol style="list-style-type: none"> <li>Turn pressure control knob clockwise to increase.</li> </ol>

## 10. Servicing

### 10.1 General servicing

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

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

### 10.2 High-pressure hose

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

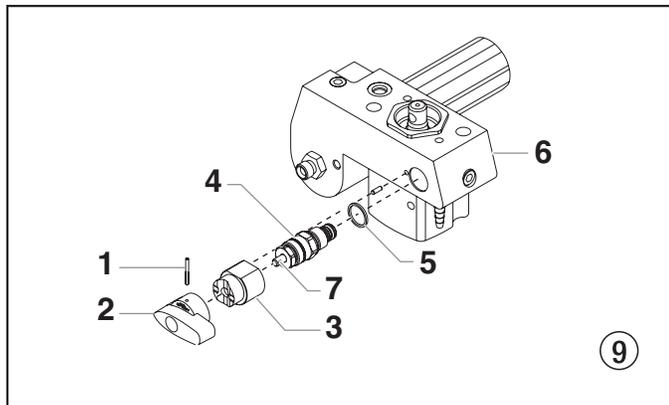
## 11. Repairs at the unit



**Switch the unit OFF.**  
**Before all repair work: Unplug the power plug from the outlet.**

### 11.1 Relief valve

1. Use a drift punch of 2 mm to remove the grooved pin (Fig. 9, Item 1) from the relief valve handle (2).
2. Remove the relief valve handle (2) and cam base (3).
3. Using a wrench, remove the valve housing (4) from the pump manifold (6).
4. Ensure that the seal (5) is seated correctly, then screw the new valve housing (4) completely into the pump manifold (6). Tighten securely with a wrench.
5. Align the cam base (3) with the hole in the pump manifold (6). Lubricate the cam base with grease and slide on the cam base.
6. Bring the hole in the valve shaft (7) and in the relief valve handle (2) into alignment.
7. Insert the grooved pin (1) to secure the relief valve handle in position.



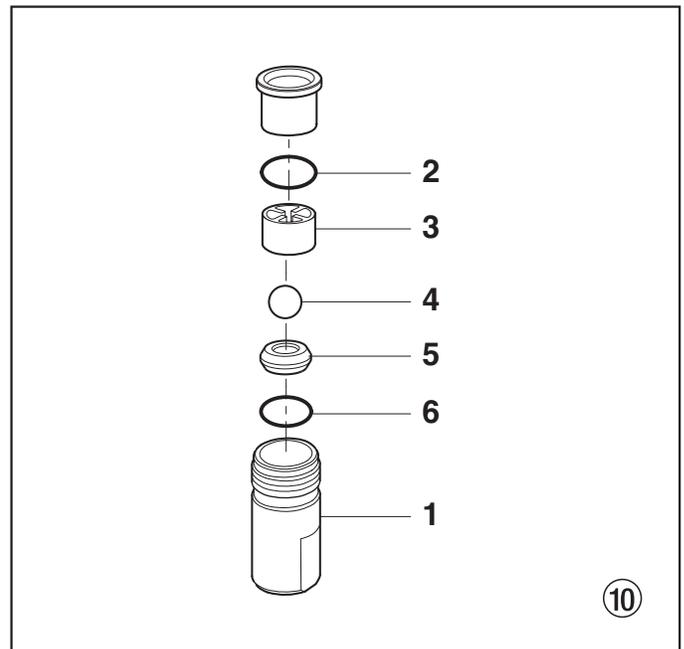
### 11.2 Inlet and outlet valve

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

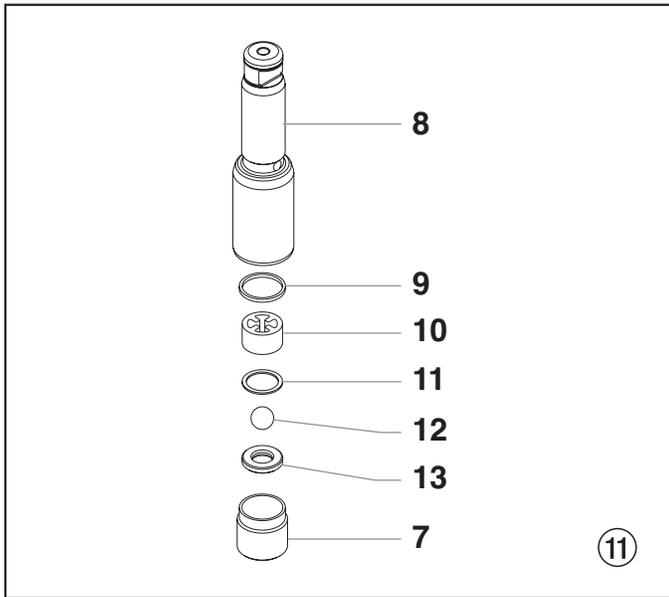


**Danger of crushing - do not reach with the fingers or tool between the moving parts.**

3. Unplug the power plug from the outlet.
4. Screw off the suction tube.
5. Screw off the return hose.
6. Swivel the unit 90° to the rear in order to work more easily on the material feed pump.
7. Unscrew the inlet valve housing (Fig. 10, Item 1) from the pump manifold.
8. Remove the lower seal (2), lower ball guide (3), inlet valve ball (4), inlet valve seat (5) and O-ring (6).
9. Clean all the parts with the corresponding cleaning agent. Check the inlet valve housing (1), inlet valve seat (5) and inlet valve ball (4) for wear and replace the parts if necessary. If the worn inlet valve seat (5) is unused on one side, install it the other way round.

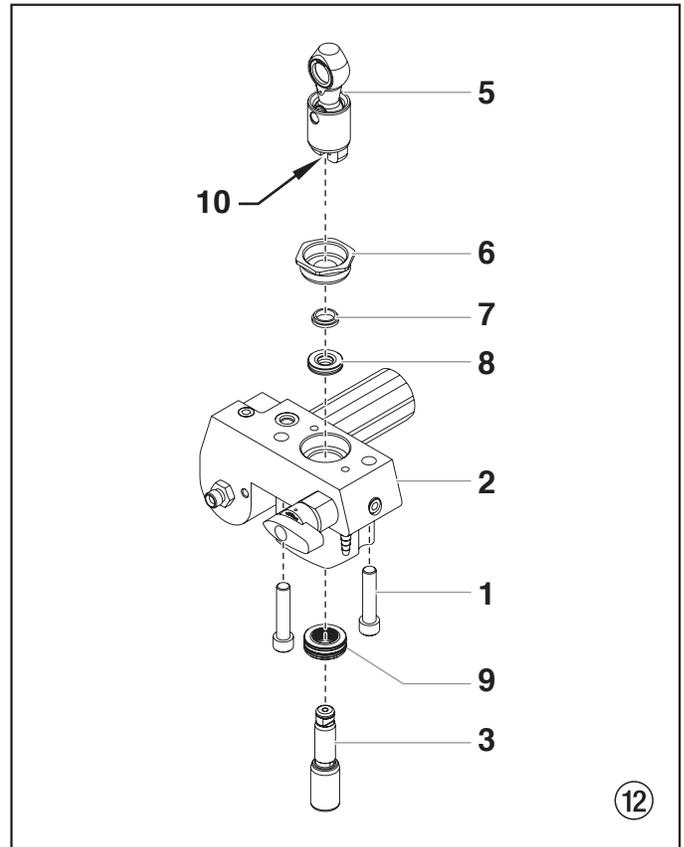


10. Unscrew the outlet valve housing (Fig. 11, Item 7) from the piston (8) with 3/8 inch hexagon socket head wrench.
11. Remove the upper seal (9), upper ball guide (10), washer (11), outlet valve ball (12), and outlet valve seating (13).
12. Clean all the parts with the corresponding cleaning agent. Check outlet valve housing (7), outlet valve seat (13), outlet valve ball (12) and upper ball guide (10) for wear and replace parts if necessary. If the worn outlet valve seat (13) is unused on one side, install it the other way round.
13. Carry out installation in the reverse order. Lubricate O-ring (Fig. 10, Item 6) with machine grease and ensure proper seating in the inlet valve housing (Fig. 10, Item 1).

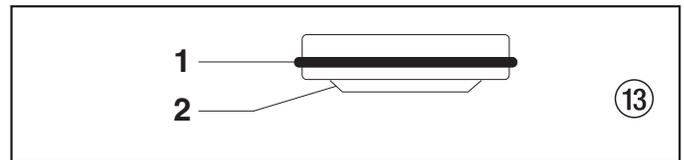


### 11.3 Packings

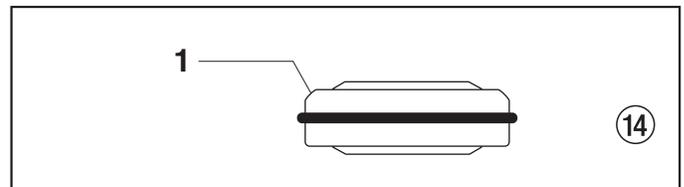
1. Remove inlet valve housing in accordance with the steps in Chapter 11.2, Page 16.
2. It is not necessary to remove the outlet valve.
3. Unscrew both cylinder head screws (Fig. 12, Item 1) from the pump manifold (2) with a 3/8 inch hexagon socket head wrench.
4. Slide the pump manifold (2) and piston (3) forward until the piston is out of the T-slot (10) on the slider assembly (5).
5. Push piston (3) downward out of the pump manifold (2).
6. Unscrew retainer nut (6) from the pump manifold (2) and remove piston guide (7).
7. Remove upper packing (8) and lower packing (9) from the pump manifold (2).



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



13. Insert lower packing (Fig. 14) with large beveled edge (1) facing up.

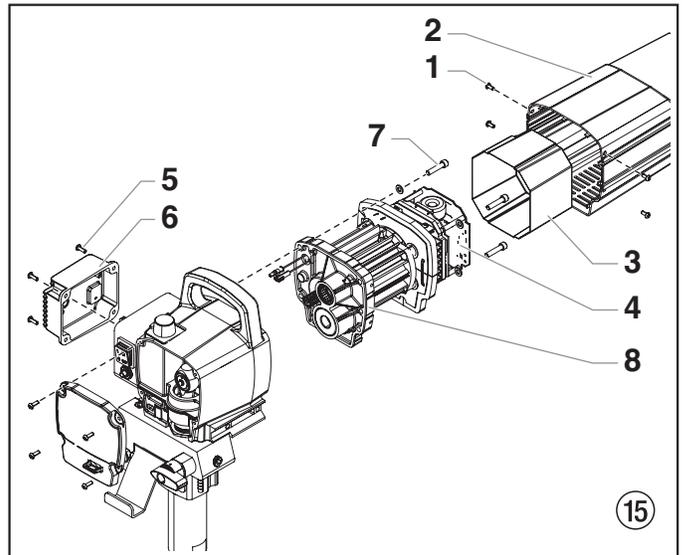


12. Insert piston guide (Fig. 12, Item 7) into the retainer nut (6). Screw retainer nut (6) into the pump manifold (2) and tighten by hand.
13. Push installation tool (included with the replacement packings) for the piston (3) from above onto the piston.
14. Lubricate installation tool and piston (3) with machine grease.
15. Guide piston (3) through the lower packings (9) into the pump manifold (2) from below. Using a rubber mallet, lightly tap the piston (3) from below until it can be seen above the pump manifold.
16. Remove installation tool from piston (3).

Repairs at the unit

17. Carefully tighten retainer nut (6) with adjusting wrench.
18. Slide the top of the piston (3) into the T-slot (10) on the slider assembly (4).
19. Position the pump manifold (2) underneath the gear unit housing and push up until it rests against the gear unit housing.
20. Attach pump manifold (2) to the gear unit housing. Ensure that the pressure sensor does not damage the pressure sensor seal (10).
21. Screw pump manifold (2) tightly to gear unit housing.
22. Lubricate O-ring (Fig. 10, Item 6) between pump manifold (2) and inlet valve housing with machine grease. Screw inlet valve housing to the pump manifold.
23. **Stand units** - Push connection bend of suction hose into the inlet valve housing (Fig. 10, Item 1) and secure with retaining clip. Screw on return hose and clamp to suction hose.  
**Cart units** - Thread the siphon tube into the inlet valve and tighten securely. Make sure to wrap the threads on the down tube with Teflon tape before assembly. Replace the return hose into the hose clip on the siphon tube.
24. Install front cover.

14. Position the heat sink assembly on the gear box housing and secure in position with the four heat sink assembly mounting screws
15. Slide the motor cover over the motor. Secure the motor cover with the four motor cover screws.



### 11.4 Replacing the motor assembly



**Electrostatic discharge (ESD) potential could cause damage to electronic control. Use Titan ESD wrist strap P/N 0507958 or equivalent when working on electronic control with electronic cover removed.**

1. Open the relief valve, valve position PRIME (↻ circulation), switch the unit OFF, and unplug the power cord.
2. Remove the four motor cover screws (Fig. 15, Item 1). Remove the motor cover (2).
3. Slide the electronic cover (3) off of the electronic control assembly (4) on the motor.
4. Remove the four heat sink assembly screws (5). Pull back the heat sink assembly (6) to access and disconnect the two wires coming from the motor.
5. At the electronic control assembly, disconnect the wire coming from the potentiometer and the wire coming from the transducer.
6. Loosen and remove the four motor (7) mounting screws.
7. Pull the motor (8) out of the gear box housing.



**If the motor will not dislodge from the pump housing:**

- Remove the front cover plate.
- Using a rubber mallet, carefully tap on the front of the motor crankshaft that extends through the slider assembly.

8. With the motor removed, inspect the gears in the gear box housing for damage or excessive wear. Replace the gears, if necessary.
9. Install the new motor into the gear box housing.
10. Secure the motor with the four motor mounting screws.
11. Reconnect the wires to the electronic control assembly (refer to the electrical schematic in section 11.7 of this manual).
12. Connect one of the motor wires to the power cord and the other to the ON/OFF switch.
13. Position the electronic cover over the electronic control assembly.

### 11.5 Replacing the Gears



**Electrostatic discharge (ESD) potential could cause damage to electronic control. Use Titan ESD wrist strap P/N 0507958 or equivalent when working on electronic control with electronic cover removed.**

1. Open the relief valve, valve position PRIME (↻ circulation), switch the unit OFF, and unplug the power cord.
2. Loosen and remove the four motor cover screws (Fig. 16, 1). Remove the motor cover (2).
3. Slide the electronic cover (3) off of the electronic control assembly (4) on the motor.
4. Remove the four heat sink assembly screws (5). Pull back the heat sink assembly (6) to access and disconnect the two wires coming from the motor.
5. At the electronic control assembly, disconnect the wire coming from the potentiometer and the wire coming from the transducer.
6. Loosen and remove the four motor mounting screws.
7. Pull the motor (8) out of the gear box housing.



**If the motor will not dislodge from the pump housing:**

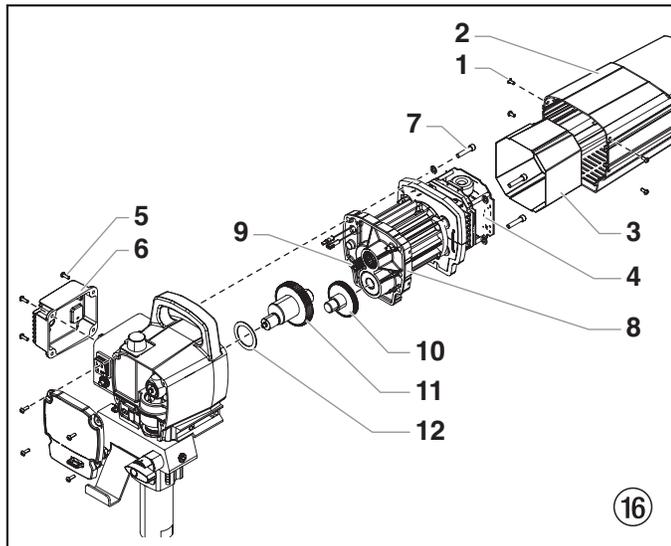
- Remove the front cover plate.
- Using a rubber mallet, carefully tap on the front of the motor crankshaft that extends through the slider assembly.

8. Inspect the rotor gear (9) on the end of the motor for damage or excessive wear. If this gear is completely worn out, replace the motor.
9. Remove and inspect the 2nd stage gear assembly (10) for damage or excessive wear. Replace, if necessary.

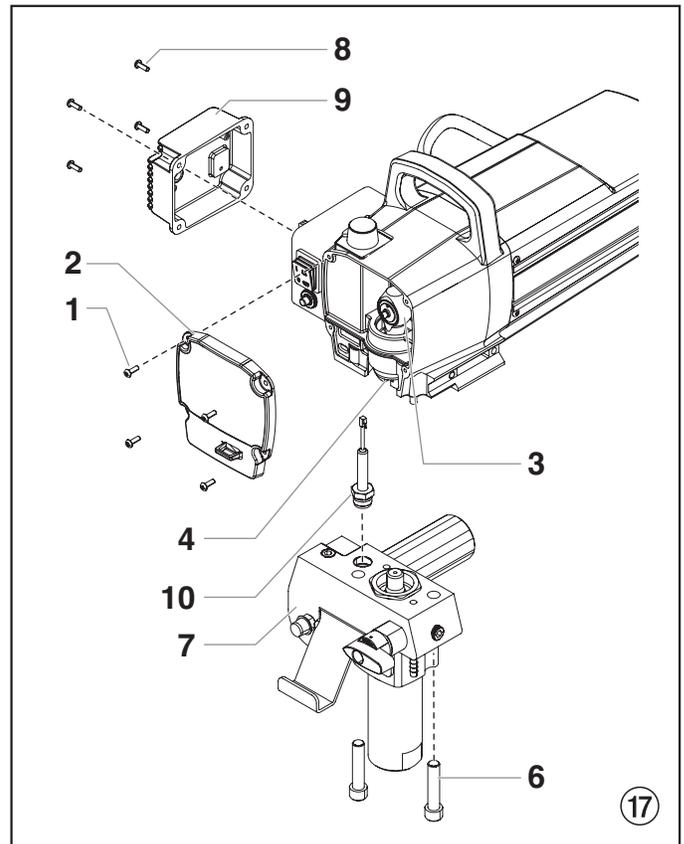
10. Remove and inspect the crankshaft/gear assembly (11) for damage or excessive wear. If damaged or worn, replace the crankshaft/gear assembly.
11. Reassemble the pump by reversing the above steps. During reassembly, make sure the thrust washer (12) is in place.



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



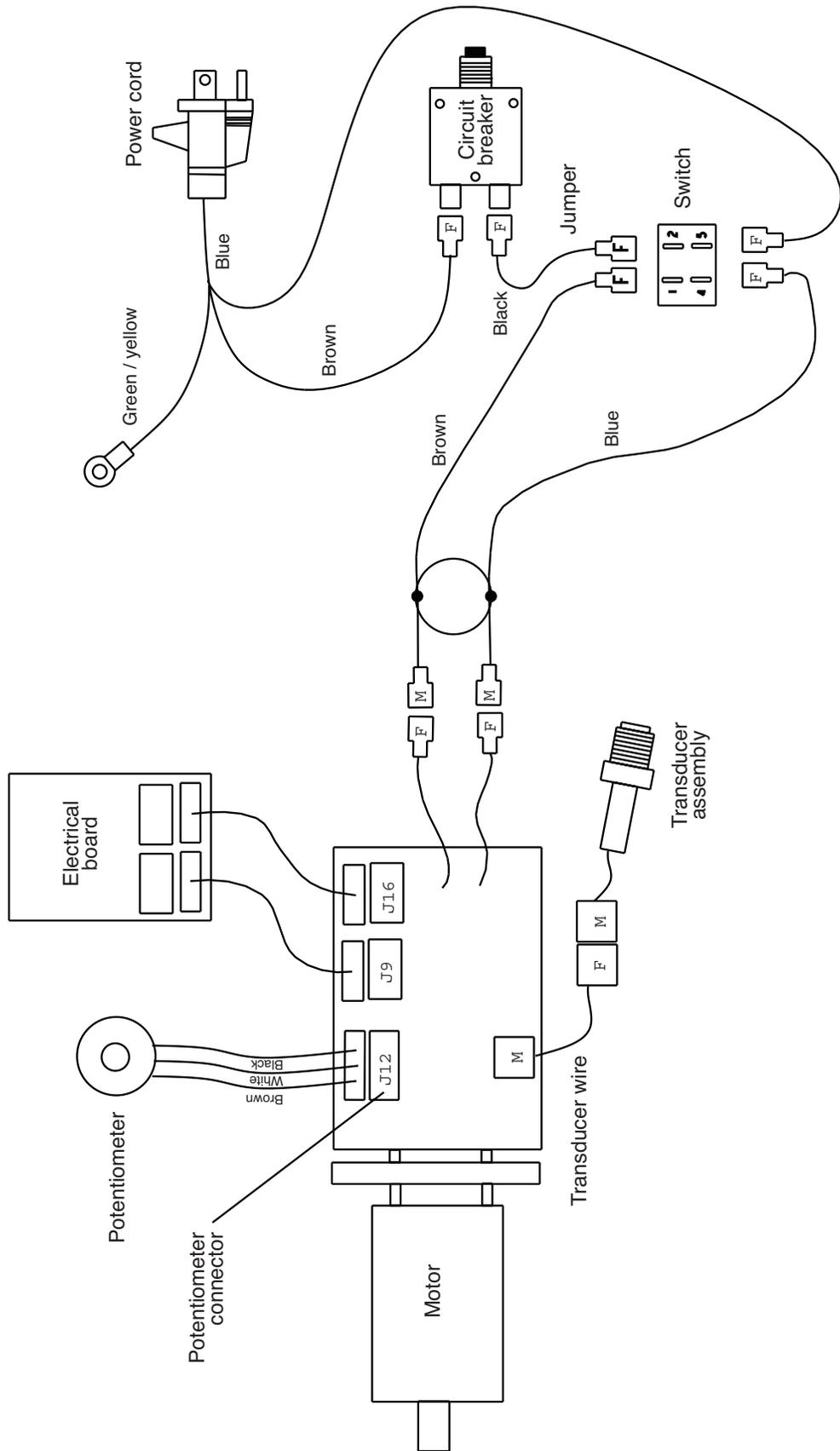
Make sure the transducer is aligned properly with the hole in the pump manifold during reassembly. Improper alignment may cause damage to the transducer o-ring.



## 11.6 Replacing the Transducer

1. Open the relief valve, valve position PRIME (↻ circulation), switch the unit OFF, and unplug the power cord.
2. Loosen and remove the four front cover screws (Fig. 17, Item 1). Remove the front cover (2).
3. Stop the sprayer at the bottom of its stroke so that the piston is in its lowest position.
4. Tilt the sprayer back for easy access to the fluid section.
5. Using 3/8" a hex wrench, loosen and remove the two pump manifold mounting screws (6).
6. Pull the pump manifold (7) down approximately 4 cm from the pump housing to clear the transducer.
7. Slide the pump block and piston rod forward until the piston rod is out of the T-slot (4) on the slider assembly (3).
8. Remove the four heat sink assembly mounting screws (8). Pull back the heat sink assembly (9) for access to the transducer wire.
9. Follow the transducer wire from the transducer (10) to the motor electronic control assembly and unplug the wire from the electronic control assembly.
10. Using a wrench, remove the transducer assembly (10) from the pump manifold.
11. Thread the new transducer assembly into the pump manifold. Tighten securely with a wrench.
12. Plug the transducer wire into the motor electronic control assembly where the old transducer wire was located.
13. Reassemble the pump by reversing steps 2–8.

### 11.7 Performance Series 750e connection diagram



## 12. Accessories for Performance Series 750e

### Airless Tip Selection

Tips are selected by the orifice size and fan width. The proper selection is determined by the fan width required for a specific job and by the orifice size that will supply the desired amount of fluid and accomplish proper atomization.

For light viscosity fluids, smaller orifice tips generally are desired. For heavier viscosity materials, larger orifice tips are preferred. Please refer to the chart below.



**Do not exceed the sprayer's recommended tip size.**

The following chart indicates the most common sizes and the appropriate materials to be sprayed.

Tip Size	Spray Material	Filter Type
.011 – .013	Lacquers and stains	100 mesh filter
.015 – .019	Oil and latex	60 mesh filter
.021 – .026	Heavy bodied latex and blockfillers	30 mesh filter

Fan widths measuring 8" to 12" (20 to 30 cm) are preferred because they offer more control while spraying and are less likely to plug.

## 13. Appendix

### 13.1 Selection of tip

To achieve faultless and rational working, the selection of the tip is of the greatest importance. In many cases the correct tip can only be determined by means of a spraying test.

**Some rules for this:**

The spray jet must be even.

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

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

The following principle is valid:

large tip =	low pressure
small tip =	high pressure

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

### 13.2 Servicing and cleaning of Airless hard-metal tips

**Standard tips**

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

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

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

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

### Liquid Shield Plus

Cleans and protects spray systems against rust, corrosion and premature wear. Now with -25° anti-freeze protection.

Part #	Description
314-483	4 ounce (112 ml) bottle
314-482	1 liter bottle



### Piston Lube

Specially formulated to prevent materials from adhering to the piston rod, which becomes abrasive to the upper seals. Piston Lube will break down any material that may accumulate in the oil cup and keep it from drying.

Part #	Description
314-481	4 ounce (112 ml) bottle
314-480	8 ounce (240 ml) bottle



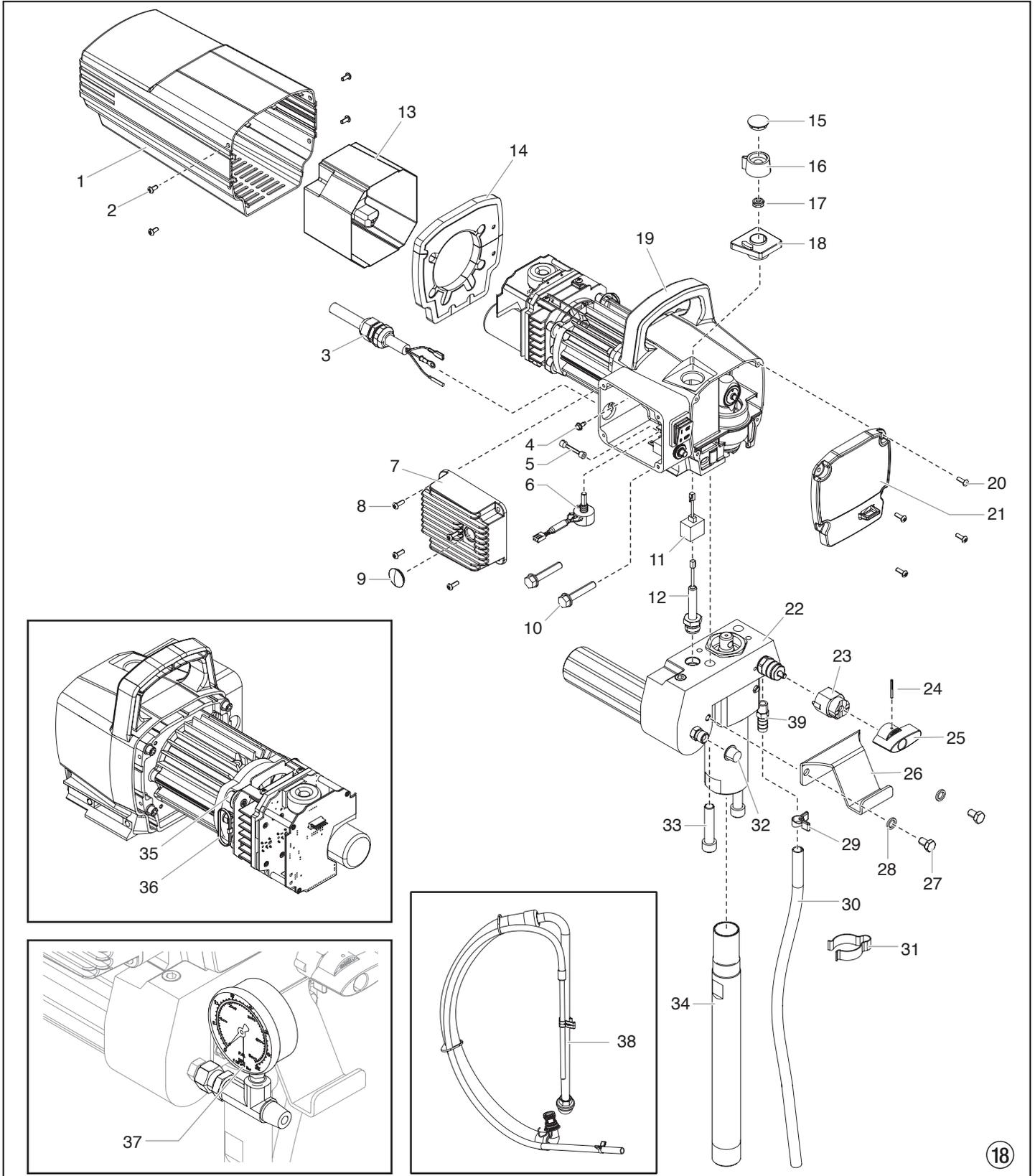
### Miscellaneous

Part #	Description
490-012	Hose Coupling, 1/4" x 1/4"
730-397	High Pressure Fl. Gauge
314-171	Lubriplate, 14 ounce individual
314-172	Lubriplate, 6 lb. can

# Spare parts list

## Performance Series 750e

### Main Assembly



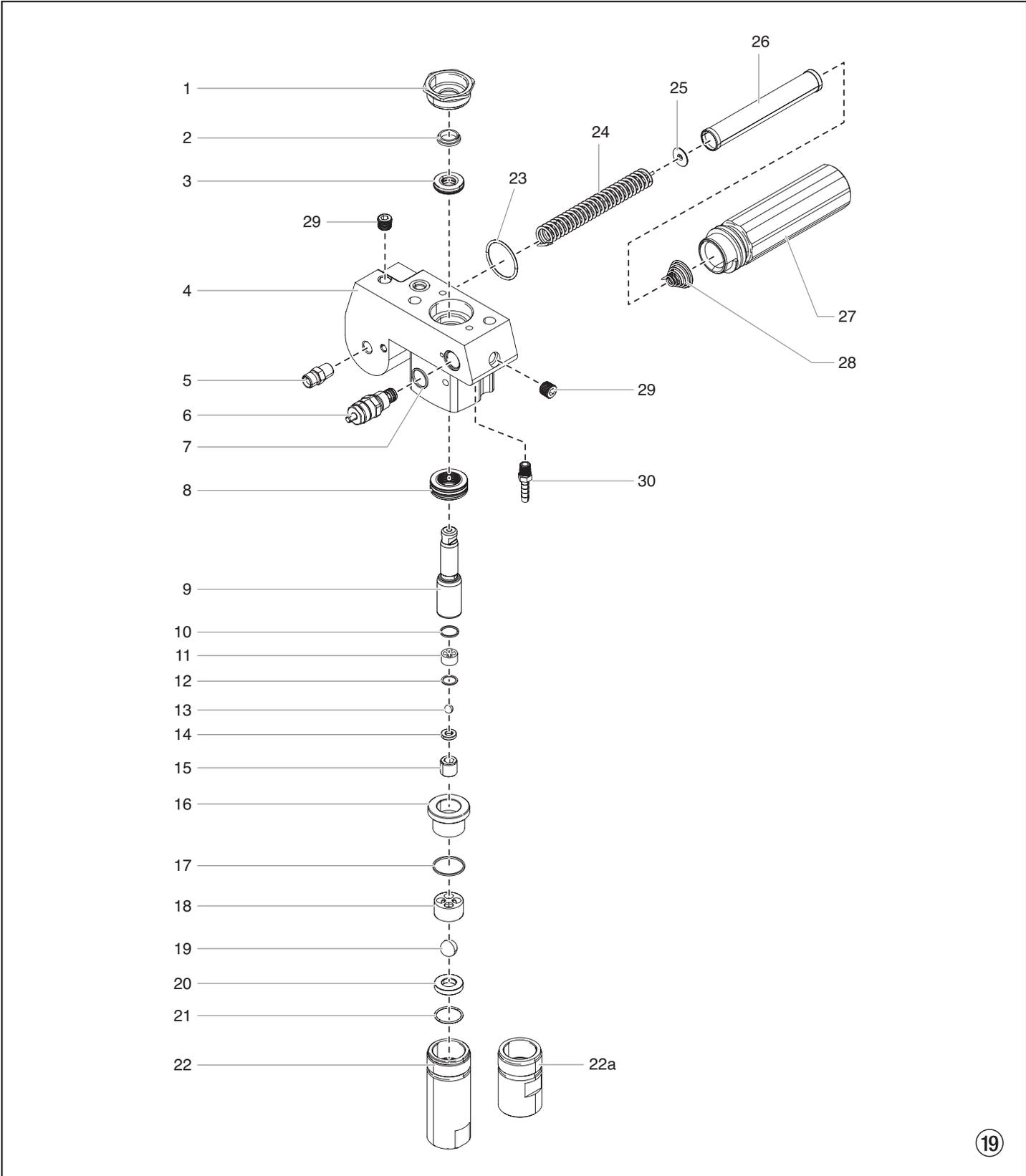
Item	Part No.	Description
1	0558 302	Motor shroud
2	9805 287	Screw (4)
3	0508 775	Power cord
4	9800 340	Ground screw
5	765-072	Jumper wire
6	800-461	Potentiometer
7	806-051	Heat sink cover
8	700-139	Screw (4)
9	704-281	Grommit
10	761-178	Screw (4)
11	704-548	Transducer jumper
12	704-492A	Transducer assembly
13	705-063	Electric motor cover
14	0551 930	Baffle assembly
15	700-175	Cap
16	700-159	Knob
17	700-176	Nut with seal
18	806-111	Potentiometer mount
19	-----	Drive assembly
20	700-139	Screw (4)
21	0558 301	Face plate

Item	Part No.	Description
22	0558 377A	Fluid section assembly (cart)
	0558 376A	Fluid section assembly (stand)
23	700-252	Cam base
24	700-759	Groove pin
25	0507 662	Relief valve knob
26	0551 443	Pail hook (cart)
27	710-033	Screw (2, cart)
28	763-552	Washer (2, cart)
29	0327 226	Clip (cart)
30	0551 556	Return tube (cart)
31	730-334	Clip (cart)
32	730-197	Cap
33	704-117	Screw (2)
34	0551 663	Suction tube (cart)
35	800-439	Spacer
36	700-742	Tie wrap
37	0508 239	Manometer
38	0551 705	Siphon assembly (stand)
39	9885 612	Return tube fitting (stand)

# Spare parts list

## Performance Series 750e

### Fluid section

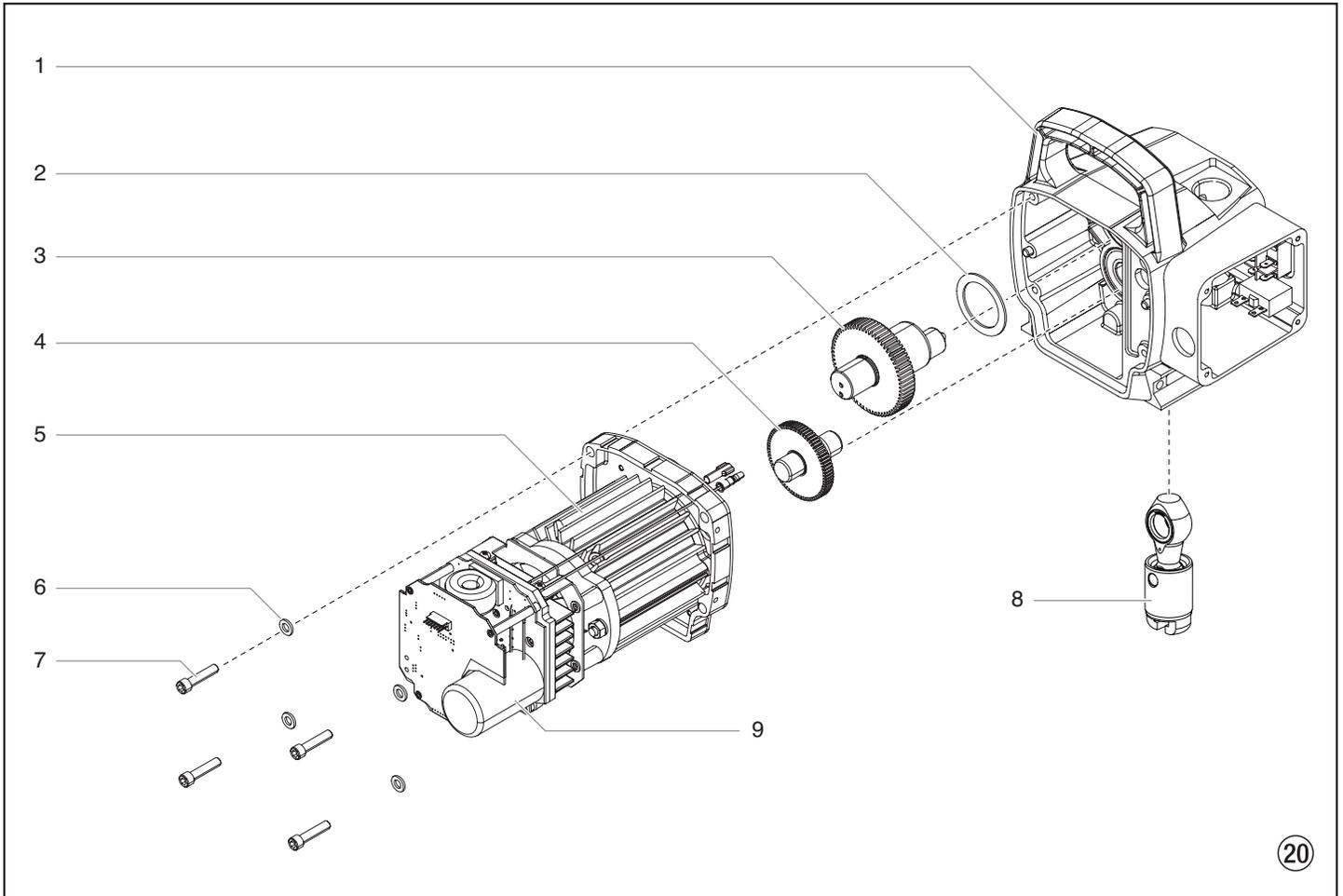


<b>Item</b>	<b>Part No.</b>	<b>Description</b>
1	705-104	Retainer
2	705-105	Piston guide
3	-----	Upper packing
4	0551 681	Pump manifold
5	227-006	Fitting
6	800-925	Bypass valve assembly
7	700-537	Gasket
8	-----	Lower packing
9	800-452	Piston rod
10	800-348	Seal
11	0294 516	Upper cage
12	0507 454	Washer
13	9841 502	Outlet valve ball
14	0294 516	Outlet valve seat
15	800-336	Outlet valve retainer
16	705-103	Bushing
17	762-103	Inlet valve seal
18	800-442	Lower ball guide
19	51519	Inlet valve ball
20	00310	Inlet valve seat
21	762-058	O-ring, Teflon
22	0551 662	Inlet valve housing (cart)
22a	806-307	Inlet valve housing (stand)
23	704-297	O-ring
24	757-105	Bearing spring
25	702-251	Bearing ring
26	730-067	Filter
27	704-252	Filter housing
28	730-083	Conical spring
29	227-028	Pipe plug (2)
30	193-200	Return tube fitting (cart)
	705-120A	Piston assembly (includes items 9-15)
	0551 677	Repacking kit (includes items 2-3, 8, 10, 12-13, 16-17, 19 and 21)

# Spare parts list

## Performance Series 750e

### Drive Assembly

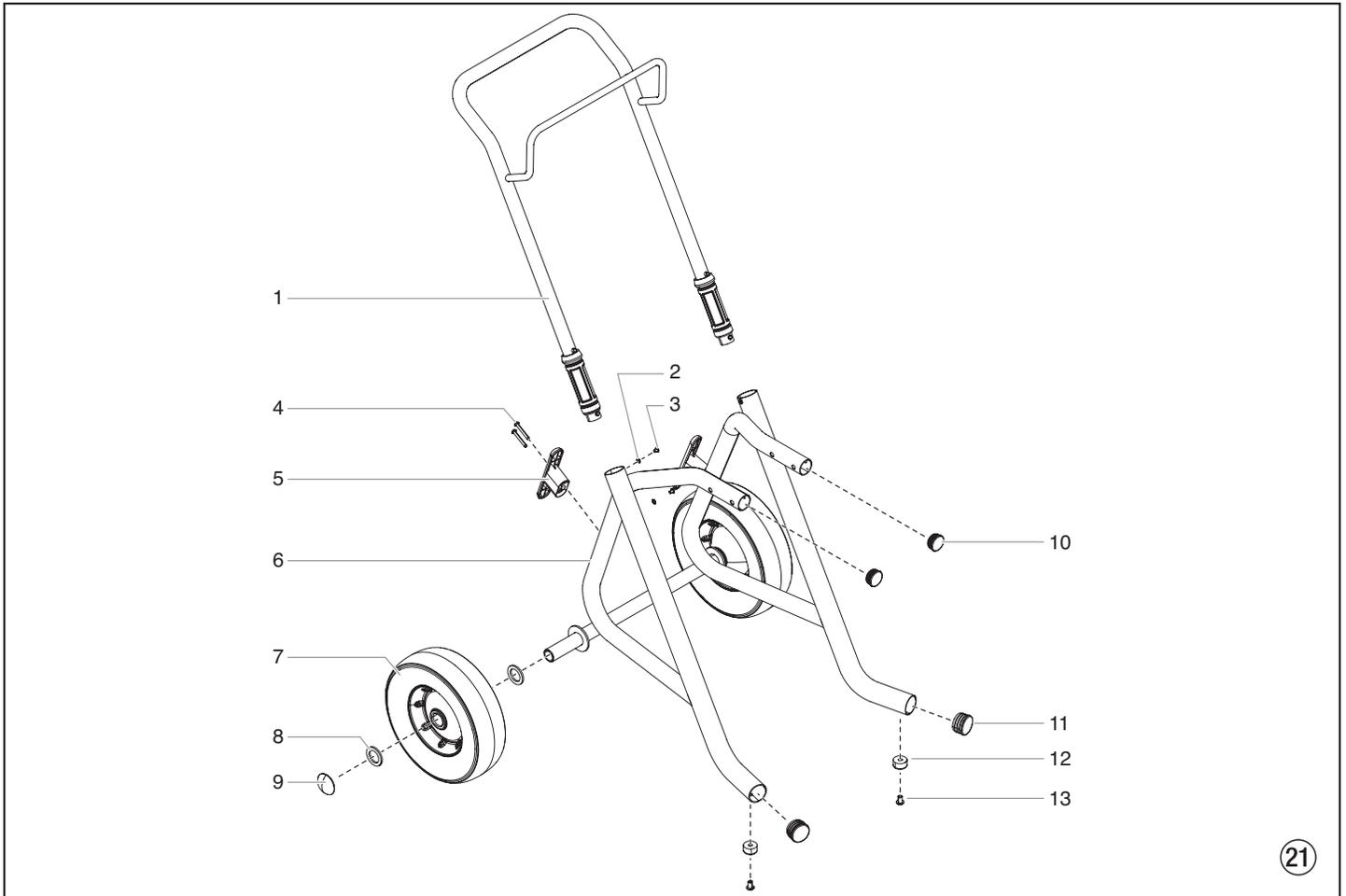


Item	Part No.	Description
1	0558 356A	Housing assembly
2	704-174	Thrust washer
3	704-173A	Gear/crankshaft assembly
4	704-176	2nd stage gear
5	0551 599	Motor assembly (without electronic control assembly)
6	9820 213	Washer (4)
7	9800 341	Screw (4)
8	704-301A	Slider assembly
9	0551 612	Electronic control assembly
	806-230A	Motor assembly and electronic control assembly

# Spare parts list

## Performance Series 750e

### Upright cart assembly



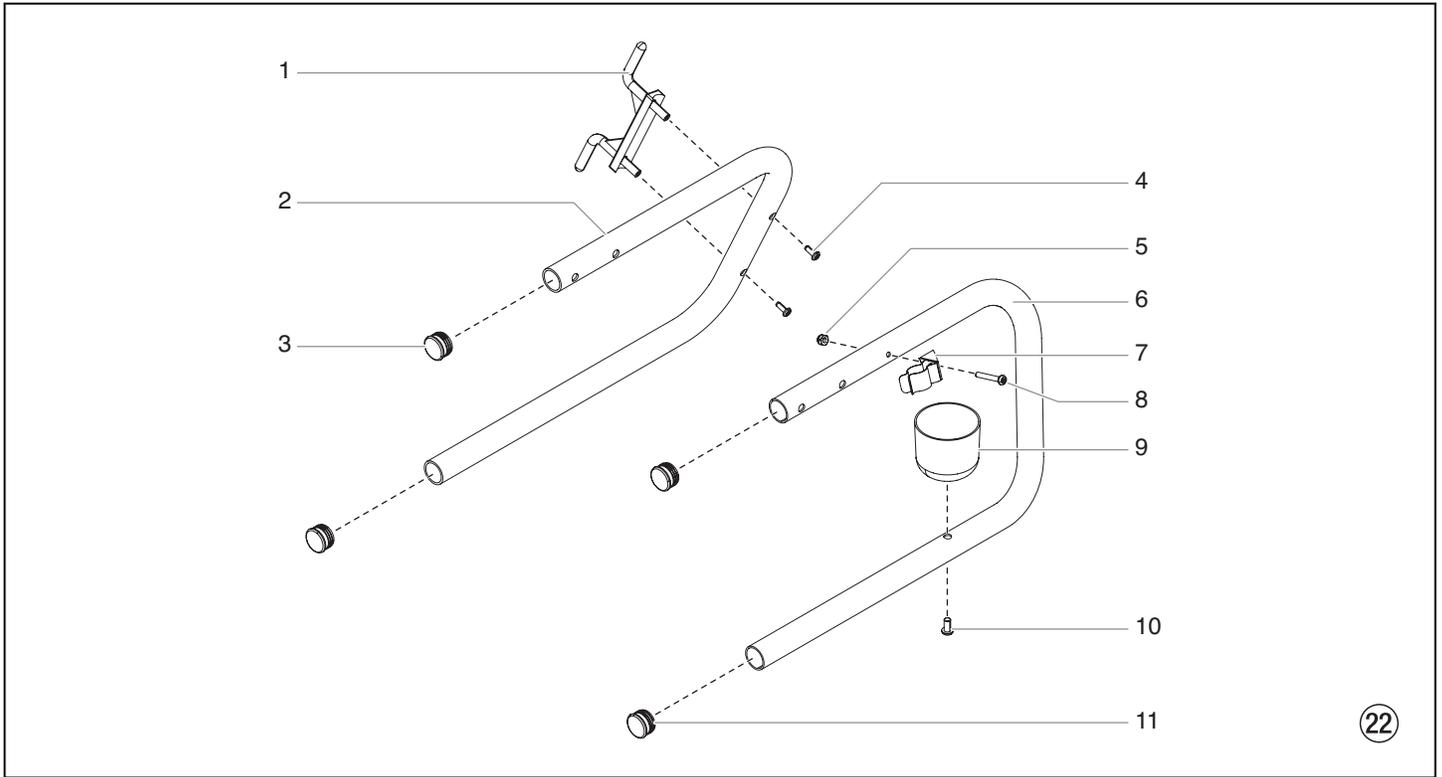
21

Item	Part No.	Description
1	0551 679	Handle assembly (includes items 2-3)
2	856-002	Washer (4)
3	856-921	Screw (2)
4	0507 774	Screw (4)
5	0507 655	Cord wrap (2)
6	0551 780	Cart weldment
7	0278 373	Wheel (2)
8	0294 534	Spacer (4)
9	9890 104	Axle cap (2)
10	0294 635	Plug (2)
11	9885 571	Plug (2)
12	13538	Bumper (2)
13	54458	Screw (2)

# Spare parts list

## Performance Series 750e

### Stand

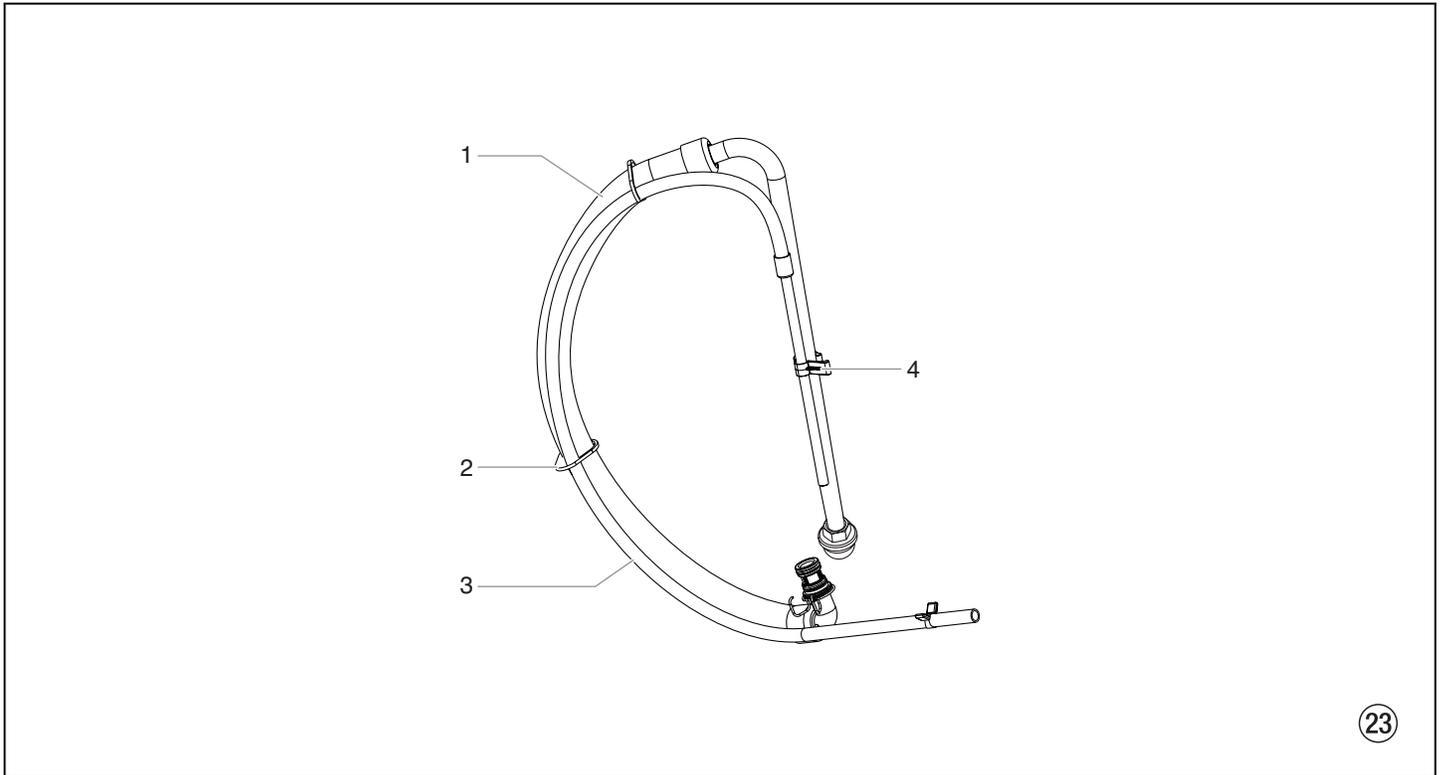


Item	Part No.	Description
1	700-761	Cord holder
2	806-071	Leg, left
3	9885 546	Plug (2)
4	700-069	Screw
5	226-001	Nut
6	806-061	Leg, right
7	704-244	Tube clip
8	0551 434	Screw
9	700-1041	Drip cup
10	9805 230	Screw
11	9885 546	Plug (2)
	0551 526	Left leg assembly (includes items 1-4)
	0551 524	Right leg assembly (includes items 5-11)

## Spare parts list

### Performance Series 750e

#### Suction system



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Item	Part No.	Description
1	0551 706	Siphon hose
2	9850 638	Tie wrap (2)
3	0551 707	Retun tube
4	0279 459	Clip
	0551 705	Siphon tube assembly (includes items 1-4)

## Warranty

Titan Tool, Inc., ("Titan") warrants that at the time of delivery to the original purchaser for use ("End User"), the equipment covered by this warranty is free from defects in material and workmanship. With the exception of any special, limited, or extended warranty published by Titan, Titan's obligation under this warranty is limited to replacing or repairing without charge those parts which, to Titan's reasonable satisfaction, are shown to be defective within twelve (12) months after sale to the End User. This warranty applies only when the unit is installed and operated in accordance with the recommendations and instructions of Titan.

This warranty does not apply in the case of damage or wear caused by abrasion, corrosion or misuse, negligence, accident, faulty installation, substitution of non-Titan component parts, or tampering with the unit in a manner to impair normal operation.

Defective parts are to be returned to an authorized Titan sales/service outlet. All transportation charges, including return to the factory, if necessary, are to be borne and prepaid by the End User. Repaired or replaced equipment will be returned to the End User transportation prepaid.

THERE IS NO OTHER EXPRESS WARRANTY. TITAN HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT PERMITTED BY LAW. THE DURATION OF ANY IMPLIED WARRANTIES WHICH CANNOT BE DISCLAIMED IS LIMITED TO THE TIME PERIOD SPECIFIED IN THE EXPRESS WARRANTY. IN NO CASE SHALL TITAN LIABILITY EXCEED THE AMOUNT OF THE PURCHASE PRICE. LIABILITY FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES UNDER ANY AND ALL WARRANTIES IS EXCLUDED TO THE EXTENT PERMITTED BY LAW.

TITAN MAKES NO WARRANTY AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY TITAN. THOSE ITEMS SOLD, BUT NOT MANUFACTURED BY TITAN (SUCH AS GAS ENGINES, SWITCHES, HOSES, ETC.) ARE SUBJECT TO THE WARRANTY, IF ANY, OF THEIR MANUFACTURER. TITAN WILL PROVIDE THE PURCHASER WITH REASONABLE ASSISTANCE IN MAKING ANY CLAIM FOR BREACH OF THESE WARRANTIES.

### Note on disposal:

In observance of the European Directive 2002/96/EC on waste electrical and electronic equipment and implementation in accordance with national law, this product is not to be disposed of together with household waste material but must be recycled in an environmentally friendly way!



Titan or one of our dealers will take back your used Titan waste electrical or electronic equipment and will dispose of it for you in an environmentally friendly way. Please ask your local Titan service centre or dealer for details or contact us direct.

## CE Declaration of conformity

Herewith we declare that the supplied version of

**Titan Performance Series 750e**

Complies with the following provisions applying to it:

**73/23 EWG, 89/336 EWG, 92/31 EWG, 93/68 EWG, 98/37 EWG.**

Applied harmonized standards, in particular:

**EN 292-1/-2, EN 1953, EN 55014, EN 60335-1, EN 61000-3.**

Applied national technical standards and specifications, in particular:

**Date: 19.11.2009**

Executive Officer

Signature

Head of Development