TITAN®

OPERATING MANUAL

PowrLiner 550

AIRLESS, HIGH-PRESSURE SPRAYING UNIT

AIRLESS HOCHDRUCK-SPRITZGERÄT

GROUPE DE PROJECTION À HAUTE PRESSION

Models:

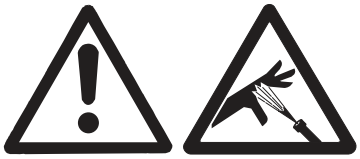
0290004

0517 • Form No. 0293779B

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.
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!

Contents

1. Safety regulations for Airless spraying

1.1 Explanation of symbols used

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.**
	**Danger of skin injection**
	**Danger of fire from solvent and paint fumes**
	**Danger of explosion from solvent, paint fumes and incompatible materials**
	**Danger of injury from inhalation of harmful vapors**
	**Notes give important information which should be given special attention.**

HAZARD: INJECTION INJURY

A high pressure stream produced by this equipment can pierce the skin and underlying tissues, leading to serious injury and possible amputation.

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.

PREVENTION:

- NEVER aim the gun at any part of the body.
- NEVER allow any part of the body to touch the fluid stream. DO NOT allow body to touch a leak in the fluid hose.
- NEVER put your hand in front of the gun. Gloves will not provide protection against an injection injury.
- 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.
- ALWAYS keep tip guard in place while spraying. The tip guard provides some protection but is mainly a warning device.
- ALWAYS remove the spray tip before flushing or cleaning the system.
- NEVER use a spray gun without a working trigger lock and trigger guard in place.
- All accessories must be rated at or above the maximum operating pressure range of the sprayer. This includes spray tips, guns, extensions, and hose.

HAZARD: HIGH PRESSURE HOSE

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.

PREVENTION:

- 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.
- Replace any damaged high-pressure hose immediately.
- Never repair defective high-pressure hoses yourself!
- Electrostatic charging of spray guns and the high-pressure hose is discharged through the high-pressure hose. For this reason the electric resistance between the connections of the high-pressure hose must be equal to or lower than 1MΩ.
- For reasons of function, safety and durability use only original Titan high-pressure hoses.
- 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.
- Make sure power cord, air hose and spray hoses are routed in such a manner to minimize slip, trip and fall hazard.

HAZARD: EXPLOSION OR FIRE

Flammable vapors, such as solvent and paint vapors, in work area can ignite or explode.

PREVENTION:

- Use equipment only in well ventilated area. Keep a good supply of fresh air moving through the area to keep the air within the spray area free from accumulation of flammable vapors. Keep pump assembly in well ventilated area. Do not spray pump assembly.
- Gas models only - Do not fill fuel tank while engine is running or hot; shut off engine and allow to cool. Fuel is flammable and can ignite or explode if spilled on a hot surface.
- Eliminate all ignition sources, such as pilot lights, cigarettes, portable electric lamps and plastic drop cloths (potential static arc).
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable vapors are present.
- Ground equipment and conductive objects in work area. Make sure grounding chain is in place and reaches the ground.
- Use only grounded hoses.
- Hold spray gun firmly to the side of a grounded pail when triggering into pail.
- If there is static sparking or if you feel a shock, stop operation immediately.
- Know the contents of the paint and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvent manufacturer's safety instructions.
- Do not use a paint or solvent containing halogenated hydrocarbons. Such as chlorine, bleach, mildewcide, methylene chloride and trichloroethane. They are not compatible with aluminum. Contact the coating supplier about compatibility of material with aluminum.
- Keep a fire extinguisher in work area.

HAZARD: HAZARDOUS VAPORS

Paints, solvents, and other materials can be harmful if inhaled or come in contact with body. Vapors can cause severe nausea, fainting, or poisoning.

PREVENTION:

- Wear respiratory protection when spraying. Read all instructions supplied with the mask to be sure it will provide the necessary protection.
- All local regulations regarding protection against hazardous vapors must be observed.
- Wear protective eyewear.
- Protective clothing, gloves and possibly skin protection cream are necessary for the protection of the skin. Observe the regulations of the manufacturer concerning coating materials, solvents and cleaning agents in preparation, processing and cleaning units.

HAZARD: GENERAL

This product can cause severe injury or property damage.

PREVENTION:

- Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.
- 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.
- 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.
- ALWAYS follow the material manufacturer's instructions for safe handling of paint and solvents.
- Clean up all material and solvent spills immediately to prevent slip hazard.
- Wear ear protection. This unit can produce noise levels above 85 dB(A).
- Never leave this equipment unattended. Keep away from children or anyone not familiar with the operation of airless equipment.
- Do not spray on windy days.
- The device and all related liquids (i.e. hydraulic oil) must be disposed of in an environmentally friendly way.

1.2 Gasoline Engine Safety

1. Gas engines are designed to give safe and dependable service if operated according to instructions. Read and understand the engine manufacturer's Owner's Manual before operating the engine. Failure to do so could result in personal injury or equipment damage.
2. To prevent fire hazards and to provide adequate ventilation, keep the engine at least 1 meter (3 feet) away from buildings and other equipment during operation. Do not place flammable objects close to the engine.
3. People who are not operating the device must stay away from the area of operation due to a possibility of burns from hot engine components or injury from any equipment the engine may be used to operate.
4. Know how to stop the engine quickly, and understand the operation of all controls. Never permit anyone to operate the engine without proper instructions.
5. Gasoline is extremely flammable and is explosive under certain conditions.
6. Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the refueling area or where gasoline is stored.
7. Do not overfill the fuel tank. After refueling, make sure the tank cap is closed properly and securely.
8. Be careful not to spill fuel when refueling. Fuel vapor or spilled fuel may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
9. Never run the engine in an enclosed or confined area. Exhaust contains poisonous carbon monoxide gas; exposure may cause loss of consciousness and may lead to death.
10. The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. To avoid severe burns or fire hazards, let the engine cool before transporting it or storing it indoors.
11. Never ship/transport sprayer with gasoline in the tank.

DO NOT use this equipment to spray water or acid.

Do not lift by cart handle when loading or unloading.

Device is very heavy. Three-person lift is required.

1.3 Fueling (gas engine)

Gasoline is extremely flammable and is explosive under certain conditions.

Fuel Specifications

- Use automotive gasoline that has a pump octane number of 86 or higher, or that has a research octane number of 91 or higher. Use of a lower octane gasoline can cause persistent "pinging" or heavy "spark knock" (a metallic rapping noise) which, if severe, can lead to engine damage.

If "spark knock" or "pinging" occurs at a steady engine speed under normal load, change brands of gasoline. If spark knock or pinging persists, consult an authorized dealer of the engine manufacturer. Failure to do so is considered misuse, and damage caused by misuse is not covered by the engine manufacturer's limited warranty.

Occasionally you may experience light spark knock while operating under heavy loads. This is no cause for concern, it simply means your engine is operating efficiently.

- Unleaded fuel produces fewer engine and spark plug deposits and extends the life of the exhaust system components.
- Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt, dust, or water in the fuel tank.

Gasolines Containing Alcohol

If you decide to use a gasoline containing alcohol (gasohol), be sure its octane rating is at least as high as that recommended by the engine manufacturer. There are two types of "gasohol": one containing ethanol, and the other containing methanol. Do not use gasohol that contains more than 10% ethanol. Do not use gasoline containing methanol (methyl or wood alcohol) that does not also contain co-solvents and corrosion inhibitors for methanol. Never use gasoline containing more than 5% methanol, even if it has co-solvents and corrosion inhibitors.

Fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol is not covered under the warranty. The engine manufacturer cannot endorse the use of fuels containing methanol since evidence of their suitability is incomplete at this time.

Before buying gasoline from an unfamiliar station, try to find out if the gasoline contains alcohol. If it does, confirm the type and percentage of alcohol used. If you notice any undesirable operating characteristics while using a gasoline that contains alcohol, or one that you think contains alcohol, switch to a gasoline that you know does not contain alcohol.

2. General view of application

2.1 Application

This airless line striper is a precision power tool used to spray many types of material for many types of applications including parking lots, curbs, and athletic fields. Read and follow this instruction manual carefully for proper operating instructions, maintenance, and safety information.

2.2 Coating materials

Processible coating materials

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

Latex paint, dispersion paints, fire protection and thick film materials, zinc dust and micaceous iron ore paints, Airless spray primer, sprayable glue, anti-corrosive agents, thick coating materials and bitumen-like coating materials.

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

Filtering

In spite of the high-pressure filter, filtering of the coating material is recommended in general.

Mix coating material before commencement of work.

Make sure when stirring 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

It is possible to work with high-viscosity coating materials with the devices.

If highly viscous coating materials cannot be sucked up, they must be diluted in accordance with the manufacturer's instruction.

Two-component coating material

The appropriate processing time must be adhered to exactly. A minimum of 45 minute set time is recommended. Within this time rinse through and clean the unit meticulously with the appropriate cleaning agents.

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 area 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 172 bar (17.2 MPa), the coating material is atomized. 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

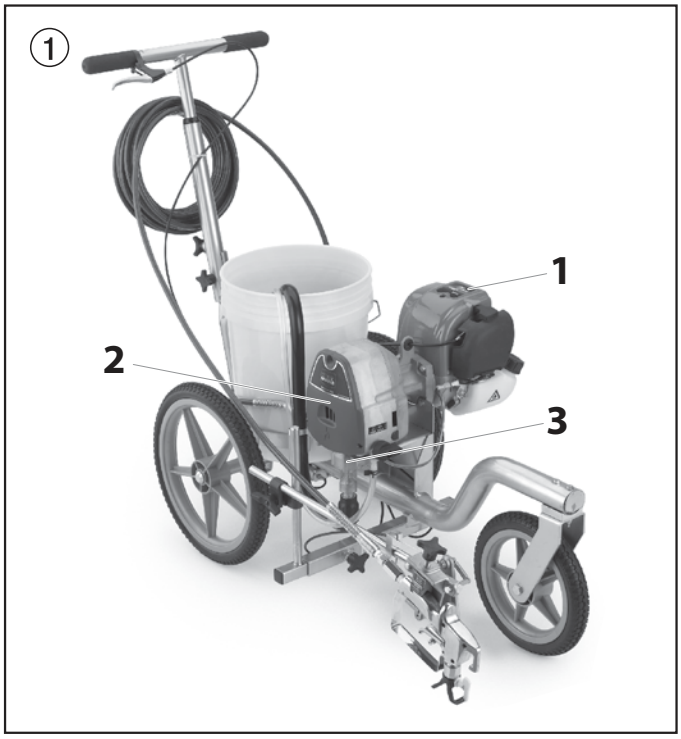
The following section contains a brief description of the technical construction for better understanding of the function.

Titan PowrLiner 550 (PL) are high-pressure spraying units driven by a gasoline engine.

The gasoline engine (fig. 1, item 1) drives the pump assembly (2) which moves the piston up and down inside the fluid section (3).

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.



3.3 System diagram

1 Spray lever
2 Handle adjustment knob
3 High-pressure hose outlet
4 Sureflo™ valve
5 Gun riser
6 Gun support bar
7 High-pressure spray gun
8 Throttle / gun cable
9 Airless spray hose
10 Bleed hose
11 Suction tube
12 Gasoline engine
13 Engine shutoff switch
14 Relief valve handle:
Turn left for circulation
Turn right for spray

3.4 Technical data

		PL550
Gasoline engine, power		
		37.7cc, 4-stroke gas engine
Fuel Capacity		
		0,65 L
Max. operating pressure		
		17,2 MPa (172 bar)
Max. sound pressure level		
		92 dB*
Max. size of tip with a spray gun		
	Traffic marking	0,019" – 0,48 mm
	Field marking	0,023" – 0,58 mm
Max. volume flow		
		1,25 l/min
Weight		
		29,5 kg
Max. viscosity		
		20.000 mPa·s
Dimensions L x W x H		
		104 cm x 53,3 cm x 81,3 cm
Altitude		
		This equipment will operate correctly up to 2000 m above mean sea level
Max. temperature of the coating material		
		43° C
Max. tire pressure		
		0,2 MPa (2 bar)
Special high-pressure hose		
		DN 6 mm, 15 m (50' x 1/4"), connection thread NPSM 1/4

* Place of measurement: 1 m distance from unit and 1.60 m above reverberant floor, 120 bar (12 MPa) operating pressure.

Attention

Do not remove the spray gun from the gun holder and attempt to use it independently. Doing this will will engage the safety shut-off switch.

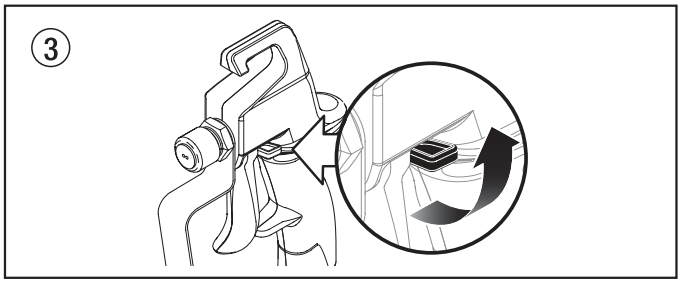
3.5 Operator controls

The following section describes the operator controls on the spray gun and line striper.

Spray Gun Trigger Lock

Engage the trigger lock whenever the gun is not in use.

The gun is locked when the trigger lock is at a 90º angle (perpendicular to the trigger in either direction).



If necessary, loosen the gun holder clamp knob and then engage the spray gun trigger lock. Move the spray gun to its original position and tighten the clamp knob.

Spray Lever

The spray lever is a dual-function lever. It is located on the cart handle (fig. 4, item 1).

The spray lever controls the throttle on the engine as well as the trigger on the spray gun.

Pulling the spray lever will simultaneously trigger the spray gun as well as rev up the engine. This engages the engine clutch with the pump and causes the sprayer to build pressure.

The sprayer is equipped with an automatic safety shut-off switch to prevent the sprayer from over-pressurizing. When the relief valve is in the SPRAY ( ) position , pulling and holding the spray lever half way without triggering the spray gun will engage the safety shut-off switch. Refer to the Maintenance section if the safety shut-off switch engages.

Relief Valve

The relief valve (fig. 5, item 1) directs material to the material bleed hose when set to PRIME (↻) or to high pressure spray hose when set to SPRAY (🚿).

The arrows on the relief valve knob shows the rotation directions for PRIME (↻) and SPRAY (🚿).

Shutoff Switch

The engine shutoff switch (fig. 5, item 2) will shut the engine off when it is running.

Press and hold the shutuff switch in order to shut the engine off.

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Sureflo™ Valve

The Sureflo™ Valve (fig. 6, item 1) is designed to keep the inlet valve open and from sticking to dried materials.

The Sureflo Valve is activated manual by the user.

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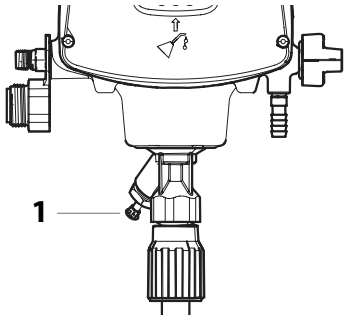

4. Operation

This equipment produces a fluid stream at extremely high pressure. Read and understand the warnings in the Safety Precautions section at the front of this manual before operating this equipment.

4.1 Setup

1. Attach the handle to the cart (fig. 7).
   a. Line up the hole in the bottom of the handle with the support weldment on the cart.
   b. Thread the bolt through the hole in the handle and the weldment. Tighten by turning the knob of the bolt clockwise (1).
   c. Position the handle at the desired height. Loosen the knob on the rear of the support weldment (2) in order to to loosen the handle.
   d. Pull the handle up or down to the desired height. Tighten the handle knob in order to secure the handle.

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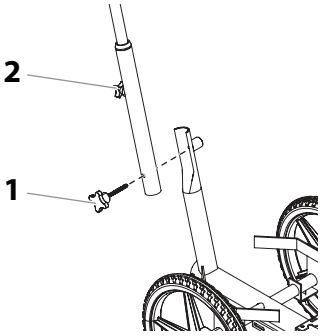

The spray gun and cables are mounted to the gun support bar at the factory.

Do not attach the tip to the spray gun yet. Remove the tip if it is already attached.

2. Make sure that the siphon tube and the bleed hose are attached and secure.
3. Using a wrench, thread the airless spray hose to the outlet fitting on the sprayer. Tighten securely.
4. Attach an airless spray gun to the spray hose. Using two wrenches (one on the gun and one on the hose), tighten securely.
5. Position the spray gun (fig 8).
   a. Loosen the support bar knob (1) and slide the gun support bar to the desired horizontal position. Make sure the gun is far enough away from the cart so that the rear wheel does not track over the fresh spray pattern.
   b. Loosen the gun riser clamp (2) and slide the spray gun to the desired vertical position. A distance of 6" from the tip to the spray surface is a good starting point.

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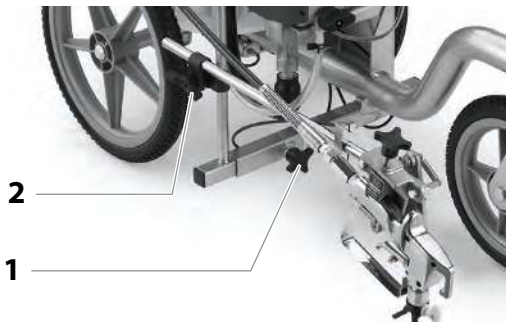

The height of the spray gun affects the width of the spray pattern (i.e., the lower the gun, the smaller the line width). Tip size also affects line width.

6. Make sure the throttle cable and gun cable are operating properly.

   When pulling the spray lever on the cart handle, the throttle cable should be fully moving the throttle lever on the engine, and the gun cable should be pulling the gun trigger at the same time.

   These cables are factory-set to operate properly. If adjustment to the gun trigger tension is required, refer to the "Adjusting the Trigger Tension" procedure in the Maintenance section of this manual.
7. Turn the relief valve knob to the PRIME (↻) position.

Attention

Never operate unit for more than ten seconds without fluid. Operating this unit without fluid will cause unnecessary wear to the packings.

8. Squirt a teaspoon of Piston Lube™ (P/N 314-480, sold separately) into the indicated area. Light household oil can be substituted if necessary.

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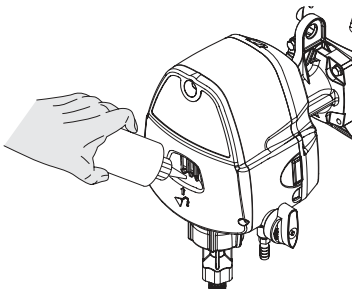

9. Check the engine oil level. The gasoline engine oil level is determined by the manufacturer. Refer to the engine manufacturer's service manual (supplied).
10. Fill the gas tank on the engine with unleaded gasoline only. Do not mix the gasoline with 2-cycle oil.

4.2 Preparing to paint

Before painting, it is important to make sure that the fluid in the system is compatible with the paint that is going to be used.

If this unit is new, it is shipped with test fluid in the fluid section to prevent corrosion during shipment and storage. This fluid must be thoroughly cleaned out of the system with mineral spirits before you begin spraying.

Incompatible fluids and paint may cause the valves to become stuck closed, which would require disassembly and cleaning of the sprayer's fluid section.

Attention

Always keep the trigger lock on the spray gun in the locked position while preparing the system. If necessary, loosen the gun holder clamp knob and then engage the spray gun trigger lock.

1. Place the siphon tube into a container of the appropriate solvent for the material being sprayed (refer to recommendations of the material manufacturer). An example of the appropriate solvent is water for latex paint.
2. Place the bleed hose into a metal waste container.
3. Turn the relief valve knob to the PRIME (↻) position.
4. Fully depress the pusher stem to make sure the inlet ball is free.
5. Start the engine (fig. 10):
   a. Move the choke lever (1) up to the full choke position.
   b. Push the rubber prime button (2) 7-10 times.
   c. Pull the starter rope (3) rapidly and firmly. Continue to hold the rope as you let it return. Pull and return the rope until the engine starts.
   d. Once the engine is running, slowly move the choke lever (1) down to the closed position

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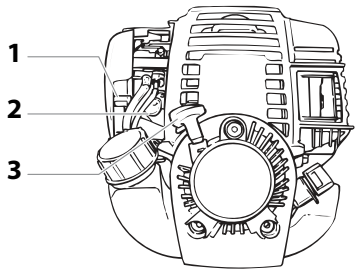
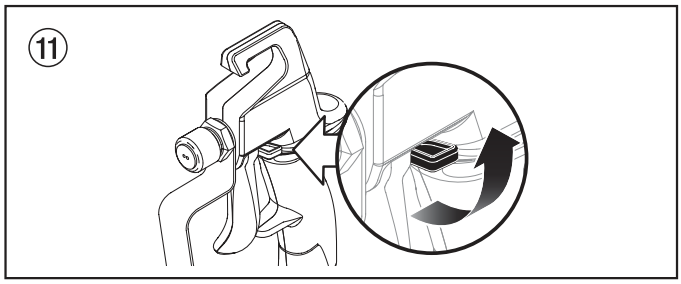


6. Fluid will begin flowing through the return hose and into the waste container. Allow the sprayer to run for 15–30 seconds to flush the test fluid out through the return hose and into the waste container.
7. Turn off the sprayer by pressing and holding the engine shutoff switch until the motor shuts off.

Make sure that the spray gun does not have a tip or tip guard installed.

8. Place a metal waste container underneath the spray gun to catch the solvent.
9. Start the engine.

10. Turn the relief valve knob to the SPRAY **(** **)** position.
11. Unlock the gun by turning the gun trigger lock to the unlocked position.
12. Fully pull the spray lever on the cart handle to rev the engine, pressurize the sprayer, and trigger the spray gun. Fluid will begin flowing through the spray hose and out of the gun.
13. Continue to pull the spray lever on the cart handle until the old solvent/test fluid is gone and fresh solvent is coming out of the gun.
14. Release the spray lever.
15. Lock the gun by turning the gun trigger lock to the locked position. If necessary, loosen the gun holder clamp knob and then engage the spray gun trigger lock. Move the spray gun to its original position and tighten the clamp knob.



16. Check the entire system for leaks. If leaks occur, turn the sprayer off and follow the “Pressure Relief Procedure” in this manual before tightening any fittings or hoses.
17. Follow the “Pressure Relief Procedure” (section 4.5) in this manual before changing from solvent to paint.

Be sure to follow the Pressure Relief Procedure when shutting the unit down for any purpose, including servicing or adjusting any part of the spray system, changing or cleaning spray tips, or preparing for cleanup.

4.3 Painting

1. Place a five gallon bucket of material between the bucket holders on the cart. Make sure the bucket holders hold the five gallon bucket securely. Adjust the bucket holders using the thumb screw located underneath each holder, if necessary.

When using this line striper for first time, it may be helpful to use water in place of paint to gain familiarity with the operation of the line striper. After changing from water to paint, test spray several lines on cardboard, roofing felt, or rosin paper before striping to ensure correct line width.

2. Place the siphon hose into a container of paint.
3. Place the bleed hose into a metal waste container.
4. Turn the relief valve knob to the PRIME **(** **)** position.
5. Fully depress the pusher stem to make sure the inlet ball is free.
6. Start the engine:
   a. Move the choke lever (1) up to the full choke position.
   b. Push the rubber prime button (2) 7-10 times.
   c. Pull the starter rope (3) rapidly and firmly. Continue to hold the rope as you let it return. Pull and return the rope until the engine starts.
   d. Once the engine is running, slowly move the choke lever (1) down to the closed position
7. Fluid will begin flowing through the return hose and into the waste container. Allow the sprayer to run for 15–30 seconds to flush the test fluid out through the return hose and into the waste container.
8. Turn off the sprayer by pressing and holding the engine shutoff switch until the motor shuts off.
9. Remove the bleed hose from the waste container and place it into the container of paint.
10. Start the engine.
11. Turn the relief valve knob to the SPRAY **(** **)** position.
12. Unlock the gun by turning the gun trigger lock to the unlocked position.
13. Fully pull the spray lever on the cart handle to rev the engine, pressurize the sprayer, and trigger the spray gun. Fluid will begin flowing through the spray hose and out of the gun.
14. Continue to pull the spray lever on the cart handle until material is coming out of the gun.
15. Release the spray lever.
16. Lock the gun by turning the gun trigger lock to the locked position. If necessary, loosen the gun holder clamp knob and then engage the spray gun trigger lock. Move the spray gun to its original position and tighten the clamp knob.
17. Turn the relief valve knob to the PRIME **(** **)** position.
18. Turn off the sprayer by pressing and holding the engine shutoff switch until the motor shuts off.
19. Attach tip guard and tip to the spray gun. Refer to the instructions in section 4.4.

POSSIBLE INJECTION HAZARD. Do not spray without the tip guard in place. Never trigger the gun unless the tip is in either the spray or the unclog position. Always engage the gun trigger lock before removing, replacing or cleaning tip.

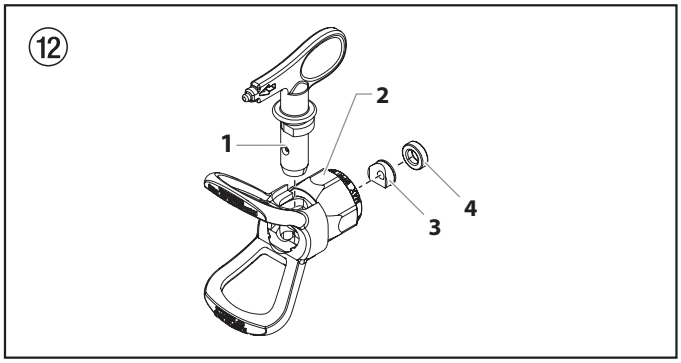
20. Start the engine.
21. Turn the relief valve knob to the SPRAY **(⍐)** position.
22. Fully pull the spray lever on the cart handle to rev the engine, pressurize the sprayer, and trigger the spray gun. Test the spray pattern and line position on a long piece of roofing felt or cardboard. Check for proper line width and position. If adjustment to the position of the spray gun is required, refer to the "Setup" procedure earlier in this section.
23. Make sure that the spray gun shuts off completely when the gun trigger is released. If adjustment to the trigger tension is required, refer to the "Adjusting the Trigger Tension" procedure in the Maintenance section of this manual.
24. Begin striping.
    a. Position the line striper slightly in front of the striping path.
    b. Start walking with the line striper and trigger the gun at the beginning of the striping path.
    c. At the end of striping path, release the trigger and continue walking a short distance, if possible.

Triggering the gun after the line striper is moving and releasing the trigger before the line striper stops produces an evenly painted line from start to finish. If the striping path ends at an obstacle, release the trigger at the same moment that the line striper stops moving.

4.4 Attaching the tip guard and tip

Use the following procedure to install the tip guard and tip to the spray gun.

1. Perform the "Pressure Relief Procedure" described in this manual (section 4.5).
2. Using a pen or similar object, insert the tip seal (3) and seal (4) into the back of the tip guard (2). Press in for final adjustment.
3. Insert the tip (1) into the slot on the tip guard.



4. Thread the tip guard onto the gun. Position the tip guard in the desired spraying position, then tighten securely.

The arrow on the tip handle should be pointing in the forward direction for spraying.

4.5 Pressure Relief Procedure

Be sure to follow the Pressure Relief Procedure when shutting the unit down for any purpose, including servicing or adjusting any part of the spray system, changing or cleaning spray nozzles, or preparing for cleanup.

1. Lock the gun by turning the gun trigger lock to the locked position. If necessary, loosen the gun holder clamp knob and then engage the spray gun trigger lock. Move the spray gun to its original position and tighten the clamp knob.
2. Turn the relief valve knob to the PRIME **(⟳)** position.
3. Turn off the sprayer by pressing and holding the engine shutoff switch until the motor shuts off.
4. Unlock the gun by turning the gun trigger lock to the unlocked position.
5. Fully pull the spray lever on the cart handle to trigger the spray gun and release any remaining pressure in the hose.
6. Lock the gun by turning the gun trigger lock to the locked position. If necessary, loosen the gun holder clamp knob and then engage the spray gun trigger lock. Move the spray gun to its original position and tighten the clamp knob.

4.6 Clearing a clogged tip

If the spray pattern becomes distorted or stops completely while the trigger is pulled, follow these steps.

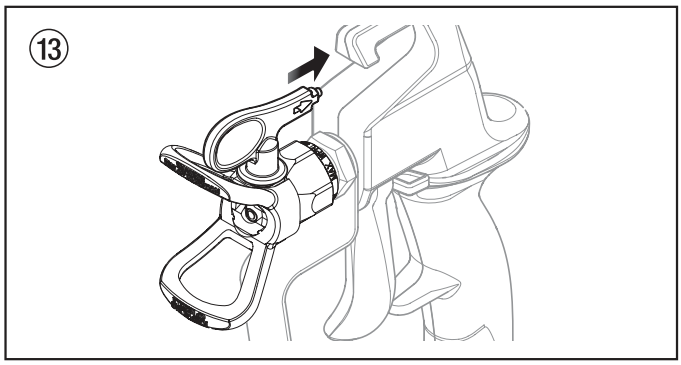
Attention

DO NOT continue to pull the spray lever if the spray tip is clogged. Continued pull on the lever with a clogged tip will over-pressurize the unit, causing it to shut down.

Attention

Do not attempt to remove the spray gun from the gun holder to clean the tip.

1. Place a sheet of cardboard or small bucket under the spray gun to catch the paint.
2. Rotate the tip 180º so that the arrow on the tip handle is pointing opposite the spray direction.



If the tip is difficult to rotate, relieve pressure by 1) slowly turning the relief valve knob to PRIME (↻), 2) unlock the spray gun, and 3) squeeze the spray lever. Release the lever, lock the spray gun, and try rotating the spray tip again.

3. Make sure the relief valve knob is turned to the SPRAY **(↱)** position. Unlock the spray gun.
4. Trigger the gun once so that the pressure can blow the clog out.

Attention

Never pull the trigger more than once at a time with the tip in the reverse position.

5. Continue this procedure until the tip is clear of the clog.

Do not attempt to clean the tip with your finger.

Attention

Do not use a needle or other sharp pointed instrument to clean the tip. The hard tungsten carbide is brittle and can be chipped.

4.7 Changing a spray tip

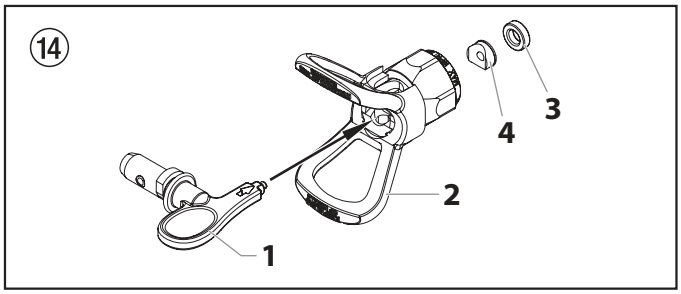
Tips can be removed and replaced easily without disassembling the gun.

Never attempt to change or clean the tip or tip guard without first performing the "Pressure Relief Procedure."

1. Perform the "Pressure Relief Procedure" described in the sprayer's Owner's Manual.
2. Remove the tip (fig. 14, item 1) from the slot on the tip guard (2).
3. Insert the new tip into the slot on the tip guard. The arrow on the tip handle should be pointing in the forward direction for spraying.

Removing the seal and tip seal

1. Remove the tip from the tip guard.
2. Insert the tip handle through the front of the tip guard.
3. Push the seal (3) and tip seal (4) out through the back of the tip guard.



Identifying Tip Sizes

To identify tip sizes, use the following formula. A "417" tip size will be used in this example.

The first digit represents the size of the spray pattern when spraying 6" away from the work surface:

4 = 4" spray pattern

The second two digits represent the diameter of the orifice on the tip:

17 = .017" orifice

Worn spray tips will adversely affect the spray pattern and result in reduced production, poor finish, and wasted material. Replace worn tips immediately.

4.8 Stenciling

Attention

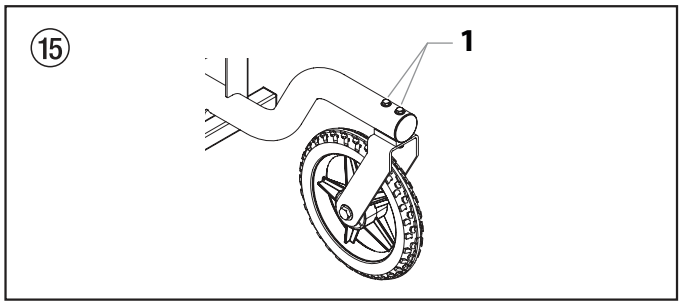
Do not remove the spray gun from the gun holder and attempt to use it independently. Doing this will will engage the safety shut-off switch.

The spray gun cannot be removed from the gun holder to perform stencil work. To stencil with this line striper, make multiple spraying passes from right to left over the stencil.

4.9 Operating the Front Caster

The front caster on the cart is designed to track the sprayer in either a straight line or allow a desired radius to be set. To adjust the front caster:

1. Loosen the two caster bolts on the top side of the caster.
2. Move the front wheel to the proper position for the desired radius.
3. Re-tighten the bolts to secure the caster in position.



5. Cleanup

Attention

The sprayer, hose, and gun should be cleaned thoroughly after daily use. Failure to do so permits material to build up, seriously affecting the performance of the unit.

Always spray at minimum pressure with the gun nozzle tip removed when using mineral spirits or any other solvent to clean the sprayer, hose, or gun. Static electricity buildup may result in a fire or explosion in the presence of flammable vapors.

5.1 Special cleanup instructions for use with flammable solvents

- Always flush spray gun preferably outside and at least one hose length from spray pump.
- If collecting flushed solvents in a one gallon metal container, place it into an empty five gallon container, then flush solvents.
- Area must be free of flammable vapors.
- Follow all cleanup instructions.

5.2 Cleaning the sprayer

1. Follow the “Pressure Relief Procedure” found in the Operation section of this manual, section 4.5.
2. Remove the gun tip and tip guard and clean with a brush using the appropriate solvent.
3. Place the siphon tube into a container of the appropriate solvent (refer to recommendations of the material manufacturer). An example of the appropriate solvent is water for latex paint.
4. Place the return hose into a metal waste container.
5. Turn the relief valve knob to the PRIME **(⟲)** position.
6. Start the engine.
7. Fluid will begin flowing through the return hose and into the waste container. Allow the fluid to circulate through the sprayer and flush the paint out of the return hose into the metal waste container.
8. Turn off the sprayer by pressing and holding the engine shutoff switch until the motor shuts off.
9. Place a metal waste container underneath the spray gun to catch the paint and solvent.
10. Start the engine.
11. Turn the relief valve knob to the SPRAY **(⤴)** position.
12. Fully pull the spray lever on the cart handle to rev the engine, pressurize the sprayer, and trigger the spray gun. Fluid will begin flowing through the spray hose and out of the gun.
13. Continue to pull the spray lever on the cart handle until the material is flushed out of the hose and the solvent coming out of the gun is clean.
14. Release the spray lever.

For long-term or cold weather storage, pump Pump Saver™ through the entire system.

15. Follow the “Pressure Relief Procedure” found in the Operation section of this manual.
16. Store the sprayer in a clean, dry area.

Attention

Do not store the unit under pressure.

Attention

Do not put the high-pressure hose into solvents. Use only a wet cloth to wipe down the outside of the hose.

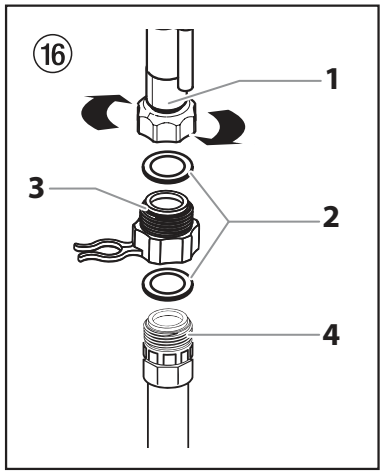
5.3 Special cleanup

Attention

Perform the following procedure after spraying with water-based materials only.

Perform the following procedure when the valves of the sprayer are stuck or when preparing the sprayer for long term storage. The use of a pump cleaning adapter that attaches to the bottom of the siphon tube is required (the pump cleaning adapter is included with the sprayer).

1. Lock the gun and remove the spray tip assembly. If necessary, loosen the gun holder clamp knob and then engage the spray gun trigger lock. Move the spray gun to its original position and tighten the clamp knob. Place the suction tube and return hose into an empty waste container.
2. Using a garden hose, rinse off the siphon tube (1), return hose and inlet filter. Empty the waste container.
3. Remove the inlet filter from the suction tube and place into a waste container.
4. Verify that the seals (2) are present inside the adapter (3) and siphon tube. Thread the pump cleaning adapter onto a garden hose (4). Connect the hose and adapter to the fitting on the end of the siphon tube.

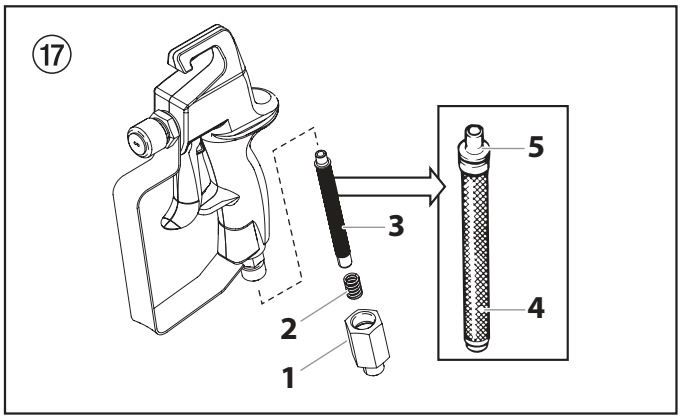


5. Unclip the return hose from the siphon tube and place it into the waste container.
6. Turn the relief valve knob to the PRIME **(↻)** position.
7. Turn on the water supply.
8. Start the engine. Water will go into the siphon tube and out through the return hose. Let the sprayer run for a few minutes to allow the return hose to be flushed.
9. Turn off the sprayer by pressing and holding the engine shutoff switch until the motor shuts off.
10. Place a metal waste container underneath the spray gun to catch the cleaning solution.
11. Start the engine.
12. Turn the relief valve knob to the SPRAY **(⍐)** position.
13. Fully pull the spray lever on the cart handle to rev the engine, pressurize the sprayer, and trigger the spray gun. Fluid will begin flowing through the spray hose and out of the gun.
14. Continue to pull the spray lever on the cart handle until the material is flushed out of the hose and the water coming out of the gun is clean.
15. Release the spray lever.
16. Follow the “Pressure Relief Procedure” found in the Operation section of this manual.

5.4 Cleaning / replacing the gun filter

The gun filter must be cleaned after every use of the sprayer. When using thicker spray materials, the filter might need to be cleaned more often.

1. Perform Pressure Relief Procedure in the Operation section of this manual.
2. Unscrew the fitting (1) from the bottom of the spray gun using an adjustable wrench, making sure not to lose the spring (2).
3. Remove the filter (3) from the spray gun housing and clean with the appropriate cleaning solution (warm, soapy water for latex paints, mineral spirits for oil-based materials).
4. Inspect the filter for holes (4). Replace if holes are found.



Attention

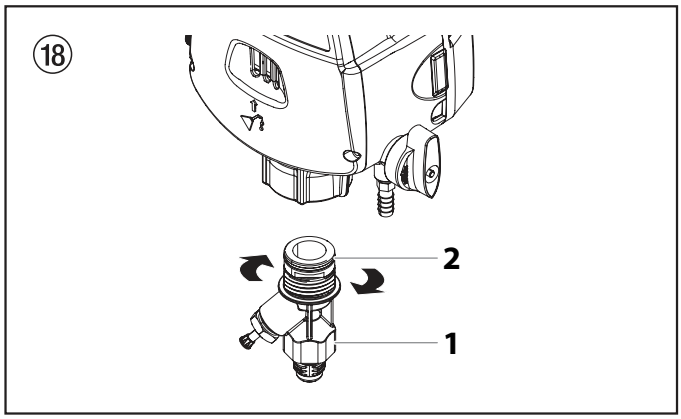
Never poke the filter with a sharp instrument!

5. Replace the cleaned filter, tapered end first (5), into the gun housing. The tapered end of the filter must be loaded properly into the gun. Improper assembly will result in a plugged tip or no flow from the gun.
6. Reassemble the spray gun.

5.5 Cleaning the Sureflo™ Valve Assembly

Cleaning or servicing the Sureflo Valve may be required if the unit has priming problems.

1. Remove the siphon tube.
2. Unscrew the inlet valve assembly from the sprayer. Visually inspect the inside and outside of the Sureflo Valve assembly (1). Clean any paint residue with the appropriate cleaning solution.
3. Lubricate the o-ring (2) on the Sureflo Valve with petroleum jelly. Replace Sureflo valve assembly by threading it into the sprayer. Torque to 32–38 ft./lbs.
4. Replace the siphon tube and tighten securely.



If priming problems continue, you may need to replace the Sureflo valve. Contact Technical Service to order a new Sureflo Valve assembly.

6. Maintenance

Before proceeding, follow the Pressure Relief Procedure outlined previously in this manual. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts or electric shock.

6.1 Adjusting the trigger tension

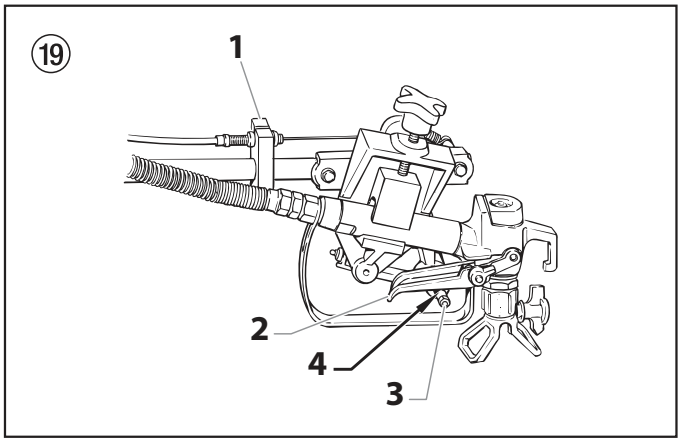
Use the following procedure to adjust the spring tension of the trigger lever on the gun holder assembly. The trigger lever pulls and releases the spray gun trigger when operated from the spray lever on the cart. The proper tension ensures that the gun will shut off when the gun trigger is released.

Attention

Always keep the trigger lock on the spray gun in the locked position while making adjustments to the system. If necessary, loosen the gun holder clamp knob and then engage the spray gun trigger lock. Move the spray gun to its original position and tighten the clamp knob.

Before proceeding, follow the Pressure Relief Procedure outlined previously in this manual.

1. Using a 9/16" (14 mm) hex wrench, loosen the hex screw on the cable block (1).
2. Move the cable block in the appropriate direction so there is a maximum of 1/32" (0.8 mm) of movement by the spray gun trigger (2) and trigger lever (3) before the spray gun opens.
   a. If the trigger lever is pushing on the trigger and opening the spray gun, slide the cable block toward the gun until the trigger settles into its normal position. Make sure the trigger lever is still flush (4) against the trigger.
   b. If there is a gap between the trigger lever and the spray gun lever, slide the cable block away from the gun.



6.2 Maintaining the Engine

For detailed engine specifications and maintenance, refer to the separate engine manual supplied with this sprayer.

Routine Engine Maintenance

Daily

- Check and fill the gas tank.
- After the first 20 hours of operation, drain the oil and refill with clean oil. Check the engine oil level and fill as necessary.

Weekly

- Remove the cover of the air filter and clean the element. Replace the element if necessary. If operating in an unusually dusty environment, check the filter daily and replace if necessary. (Replacement elements can be purchased from your local Titan dealer.)
- After each 50 hours of operation: Change the engine oil.

6.3 Safety Shut-Off Switch

The safety shut-off switch is pre-set by the factory to shut down the sprayer to prevent over-pressurization. Do not attempt to adjust or tamper with the safety shut-off switch. Contact an authorized service center if this setting requires adjustment.

The safety shut-off switch should be set to shut down the sprayer between 3200 – 3300 PSI.

6.4 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.

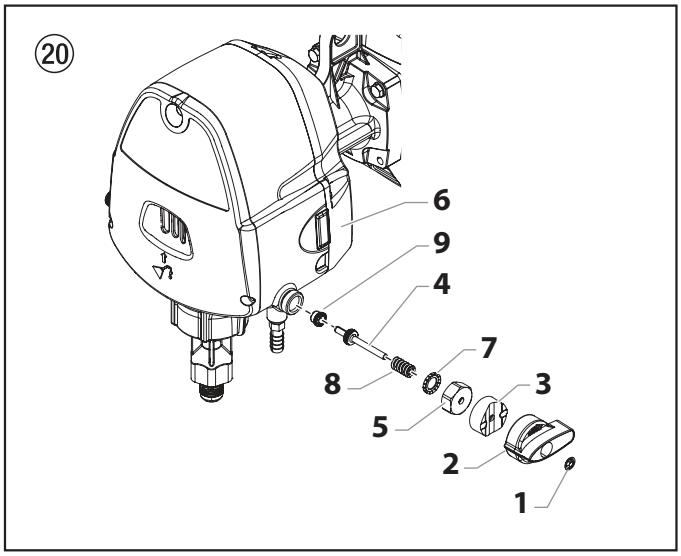
The risk of damage rises with the age of the high-pressure hose. Titan recommends replacing high-pressure hoses after 6 years.

6.5 Replacing the relief valve

Perform the following procedure using relief valve replacement kit P/N 759-380.

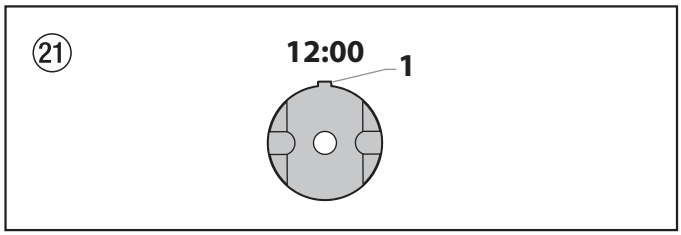
Before proceeding, follow the Pressure Relief Procedure outlined previously in this manual. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts, or electric shock.

1. Pry off the retaining clip (1) from inside the recessed portion of the valve knob (2). Remove the valve knob.
2. Slide the cam (3) off of the stem/ball assembly (4).
3. Using a wrench, remove the hex nut (5) from the pump head (6).
4. Remove the star washer (7), spring (8), and stem/ball assembly (4) from the pump head.
5. Using a 7/32" (6 mm) hex wrench, remove the stem/ball assembly seat (9) from the pump head.



6. Tighten the new stem/ball assembly seat (9) into the pump head (6). Use a 7/32" (6 mm) hex wrench. Torque to 6-8 ft.-lbs.
7. Apply a light coating of hydraulic oil around the o-ring on the new stem/ball assembly.
8. Push the stem/ball assembly into the stem/ball assembly seat in the pump head.
9. Place the new spring and star washer around the stem/ball assembly.
10. Slide the new hex nut onto the stem of the stem/ball assembly, thread it onto the pump head, and tighten with a wrench. Torque the nut to 12-14 ft.-lbs.
11. Apply a light coating of grease to the top of the cam.
12. Slide the new cam onto the stem of the stem/ball assembly and over the hex nut. The design of the cam will allow the hex nut to fit inside the cam, causing the cam to lock in position.

Position the cam on the hex nut so that the tab (fig. 21, item 1) on the side of the cam is as close to the 12:00 position as possible.



13. Place the new PRIME/SPRAY valve knob over the cam with the pointer on the knob (fig. 22, item 1) as close to the 09:00 position as possible. Make sure the knob is pushed completely onto to the cam (the knob should cover the cam completely).

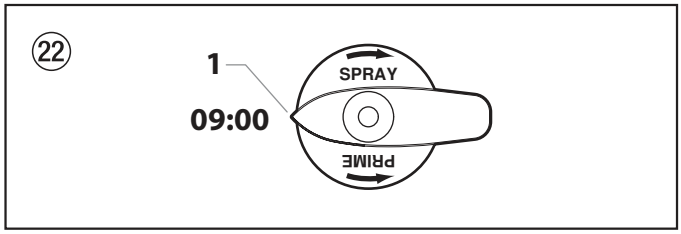
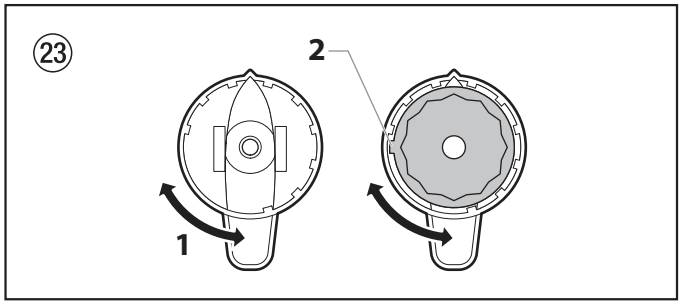


Figure 23 below shows the rear view of the relief valve knob. The knob is designed to allow 90° of movement between the SPRAY and PRIME positions.

The inside of the knob has a 90° opening (fig. 23, item 1) in its circumference where the tab of the cam (2) should be positioned to allow this movement.

When placing the knob with the arrow in the 09:00 position, make sure that the tab on the cam is within the 90° opening on the inside of the knob. Then, make sure the knob is at the end of its movement in the clockwise direction (this is the SPRAY position) before continuing with this procedure.



14. Slowly turn the knob counterclockwise until the bottom of the knob moves out to where it is flush with the bottom of the cam (approximately 5–7°).
15. Place the retaining clip over the stem of the stem/ball assembly where the stem passes through the recessed portion of the knob.
16. Using a 5/16" (8 mm) nut driver, push the clip into the recessed portion of the knob with steady, even pressure until it stops.

Attention

Do not hammer or wiggle the clip into position. It will damage the clip.

17. Turn the relief valve knob to the PRIME (↻) position.
18. Start up the sprayer and run water through the system to check for leaks. If there are no leaks, the sprayer is ready to use.

6.6 Servicing the Fluid Section

Use the following procedures to replace the seals and repack the fluid section.

Repacking kit P/N 759-365 is available. For best results use all parts supplied in this kit.

Disassembling the Fluid Section (fig. 25)

Before proceeding, follow the Pressure Relief Procedure outlined previously in this manual. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts, or electric shock.

1. Remove the suction set.
2. Remove the front cover and the three screws that secure it using a T20 Torx head driver.
3. Remove the yoke screw (1) and washer (2) that secures the dowel pin (3). The dowel pin connects the yoke (4) to the piston (5).
4. Using a pliers, pull the dowel pin (3) out.
5. Rotate the pump shaft so the piston (5) is in the top dead center position. This can be done by pushing on the yoke (4). This is required to disassemble all the parts.
6. Unscrew and remove the Sureflo Valve (6) assembly (refer to the Cleaning the Sureflo Valve procedure in the Cleanup section of this manual).
7. Remove the piston assembly by pushing down on the piston near the yoke.

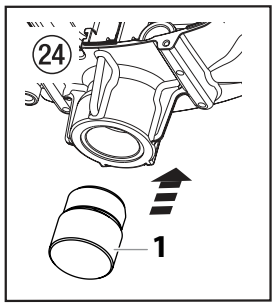
Attention

DO NOT attempt to remove the seals (5a) from the piston

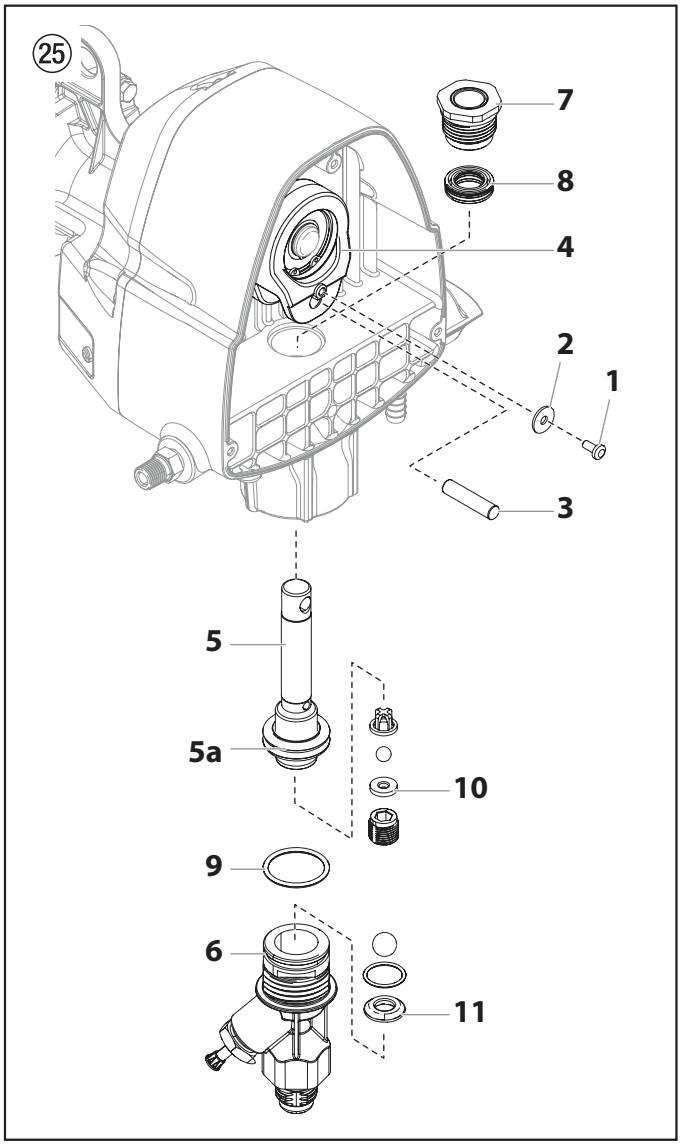
8. Unscrew and remove the top nut (7) using an adjustable wrench.
9. Remove the worn seal (8) using a flat head screwdriver or punch. Remove the top seal from the top by pressing against the side of the seal and popping it out. Be sure not to scratch the housing where the seals are located.
10. Clean the area where the new seals are to be installed.

Assembling the Fluid Section

1. Lubricate the new top seal (8) with Piston Lube (P/N 314-480) or light household oil and place the seal by hand with the cup side of seal down into the top port of the housing.
2. Place a small amount of anti-seize on the threads of the top nut. Place the top nut into the top of the housing and tighten with an adjustable wrench. This will drive the top seal into the correct position.
3. Lubricate the seal on the piston/seal assembly similar to the top seal. Place the piston/seal assembly into the bottom of the housing. Insert the insertion tool (fig. 24, item 1) and push into position to properly seat the piston/seal. Remove the insertion tool.



4. Install the new O-ring (9) on the Sureflo Valve assembly, lubricate with Piston Lube (P/N 314-480), thread into the bottom (inlet) of the housing, and tighten with an adjustable wrench. This will drive the bottom seal into the correct position.
5. Align the piston with the yoke. Be careful not to damage the piston.
6. Apply any type of non-silicone household grease to the piston and yoke area to prolong life. Apply to the holes in the yoke where the dowel is inserted.
7. Install the dowel pin to connect the yoke to the piston. The piston may have to be moved up or down to align with the yoke.
8. Install the yoke screw and washer to secure the dowel pin.
9. Turn pump right side up and apply a few drops of Piston Lube or light household oil between the top nut and piston. This will prolong the seal life.
10. Install front cover and three (3) screws.
11. Replace Sureflo Valve and install the suction set.
12. Turn on the sprayer by following the procedure in the "Operation" section of this manual and check for leaks.



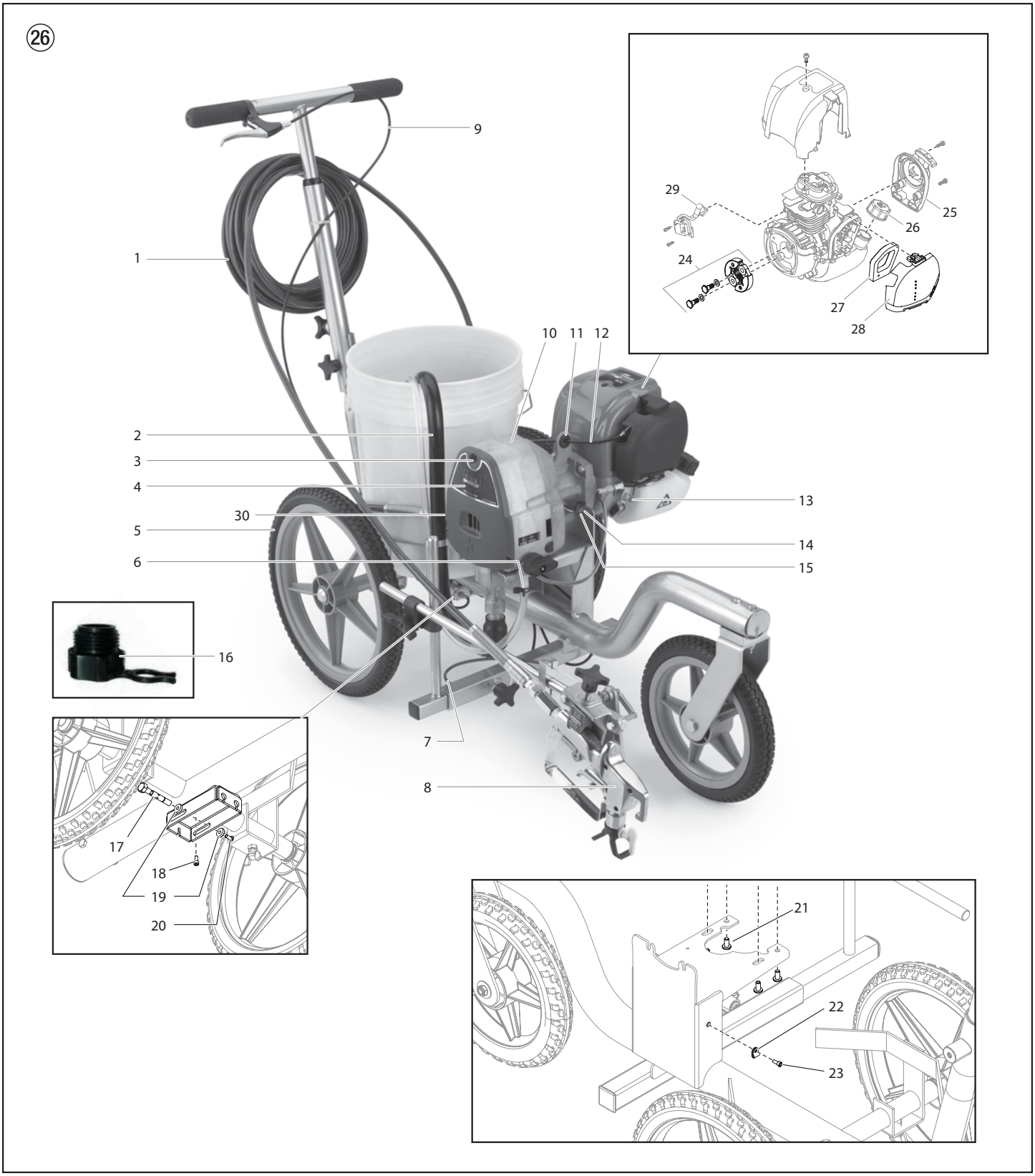
7. Remedy in case of faults

Problem	Cause	Solution
A. The unit will not run.	1. The pressure is set too low.	1. Take to an authorized service center.
	2. Faulty or loose wiring.	2. Inspect or take to a Titan authorized service center.
	3. The gas tank is empty.	3. Fill the gas tank.
B. The unit will not prime.	1. The relief valve is in the SPRAY position.	1. Rotate the relief valve clockwise to the PRIME position.
	2. Air leak in the siphon tube/siphon set.	2. Check the siphon tube/siphon set connection and tighten or replace if damaged.
	3. The inlet screen is clogged.	3. Remove the inlet screen and clean.
	4. The siphon tube/siphon set is clogged.	4. Remove the siphon tube/siphon set and clean.
C. The unit will not build or maintain pressure.	1. The spray tip is worn.	1. Replace the spray tip following the instructions that came with the spray gun.
	2. The spray tip is too large.	2. Replace the spray tip with a tip that has a smaller orifice following the instructions in this manual.
	3. The gun filter, or inlet screen is clogged.	3. The gun filter, or inlet screen is clogged.
	4. Material flows from the return hose when the relief valve is in the SPRAY position.	4. Clean or replace the relief valve.
	5. Air leak in the siphon tube/siphon set.	5. Check the siphon tube/siphon set connection and tighten or replace if damaged.
	6. There is external fluid leak.	6. Check for external leaks at all connections. Tighten connections, if necessary.
	7. There is an internal fluid section leak (seals are worn and/or dirty, valve balls are worn).	7. Clean the valves and service the fluid section following the “Servicing the Fluid Section” procedure in the Maintenance section of this manual.
	8. Worn valve seats (fig. 25, item 10, 11)	8. Reverse or replace the valve seats following the “Servicing the Fluid Section” procedure in the Maintenance section of this manual.
D. Fluid leakage at the upper end of the fluid section.	1. The upper packings are worn.	1. Repack the pump following the “Servicing the Fluid Section” procedure in the Maintenance section of this manual.
	2. The piston rod is worn.	2. Replace the piston rod following the “Servicing the Fluid Section” procedure in the Maintenance section of this manual.
E. Excessive surge at the spray gun.	1. Wrong type of airless spray hose.	1. Replace hose with a minimum of 50’ of 1/4” grounded textile braid airless paint spray hose.
	2. The spray tip worn or too large.	2. Replace the spray tip following the instructions in this manual.
	3. Excessive pressure.	3. Take to an authorized service center.
F. Poor spray pattern.	1. The spray tip is too large for the material being used.	1. Replace the spray tip with a new or smaller spray tip following the instructions in this manual.
	2. Incorrect pressure setting.	2. Take to an authorized service center.
	3. Insufficient fluid delivery.	3. Clean all screens and filters.
	4. The material being sprayed is too viscous.	4. Add solvent to the material according to the manufacturer’s recommendations.
G. The unit lacks power.	1. The pressure adjustment is too low.	1. Take to an authorized service center.

(GB) Main Assembly

(D) Hauptbaugruppe

(F) Ensemble principal



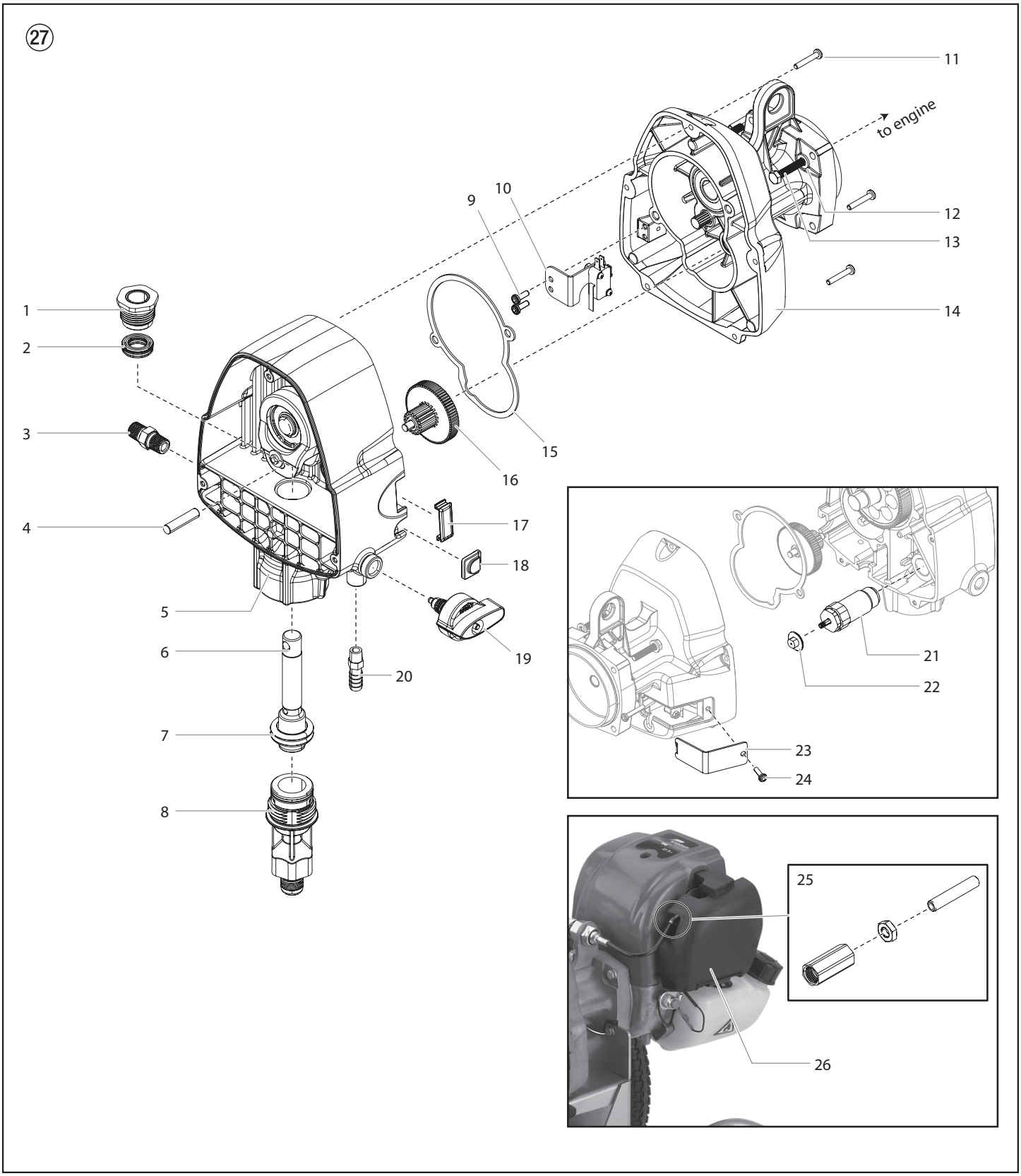
#	PL550	GB Description	D Benennung	F Description
1	316-505	Spray hose	Schlauch	Tuyau
2	0293932	Suction set assembly	Baugruppe Sauggarnitur	Ensemble du dispositif d'aspiration
3	9805251	Front cover screw	Schraube vordere Abdeckung	Vis du couvercle avant
4	0552432	Front cover	Vordere Abdeckung	Couvercle avant
5*	0293937	Cart assembly	Wagenbaugruppe	Ensemble de chariot
6	0327226	Return tube clip	Klammer Rücklaufschlauch	Attache du tube de retour
7	0293170	Gun cable	Pistolenkabel	Câble de pistolet
8*	--------	Spray gun assembly	Baugruppe Spritzpistole	Ensemble de pistolet pulvérisateur
9	0293172	Cable assembly	Kabelbaugruppe	Ensemble de câbles
10*	--------	Drive assembly*	Antriebseinheit*	Boîte d'engrenages*
11	800-036	Rubber grommit	Gummitülle	Passe-câble en caoutchouc
12	0293171	Engine cable	Motorkabel	Câble du moteur
13	0293930	Shutoff switch	Abschaltknopf	Commutateur d'arrêt
14	858-003	Washer	Scheibe	Rondelle
15	759-107	Engine mounting screw	Montageschraube Motor	Vis de montage de moteur
16	0515281	Cleaning adapter	Reinigungsadapter	Adaptateur de nettoyage
17	0293595	Cable pin	Kabel-Pin	Goupille de câble
18	756-076	Screw	Schraube	Vis
19	759-206	Pin cap	Stiftsockel	Culot à broche
20	730-260	Screw	Schraube	Vis
21	9805250	Gear housing mounting screw	Montageschraube Getriebegehäuse	Vis de montage de carter d'engrenages
22	9890219	Clip	Klammer	Attache
23	9805256	Screw	Schraube	Vis
24	0293929	Clutch assembly	Baugruppe Kupplung	Bloc d'embrayage
25	0293966	Recoil assembly	Recoil Montage	Ensemble de rétraction
26	0293928	Gas cap assembly	Baugruppe Tankdeckel	Bouchon de réservoir à essence
27	0293926	Filter	Filter	Filtre
28	0293927	Filter cover	Filterabdeckung	Couvercle de filtre
29	0293974	Ignition coil	Zündspule	Bobine d'allumage
30	0293741	Serial label	Serien Etikette	Étiquette de série

* See separate listing / Siehe separate Auflistung / voir la liste de pièces distincte

(GB) Drive Assembly

(D) Baugruppe Antrieb

(F) Ensemble moteur

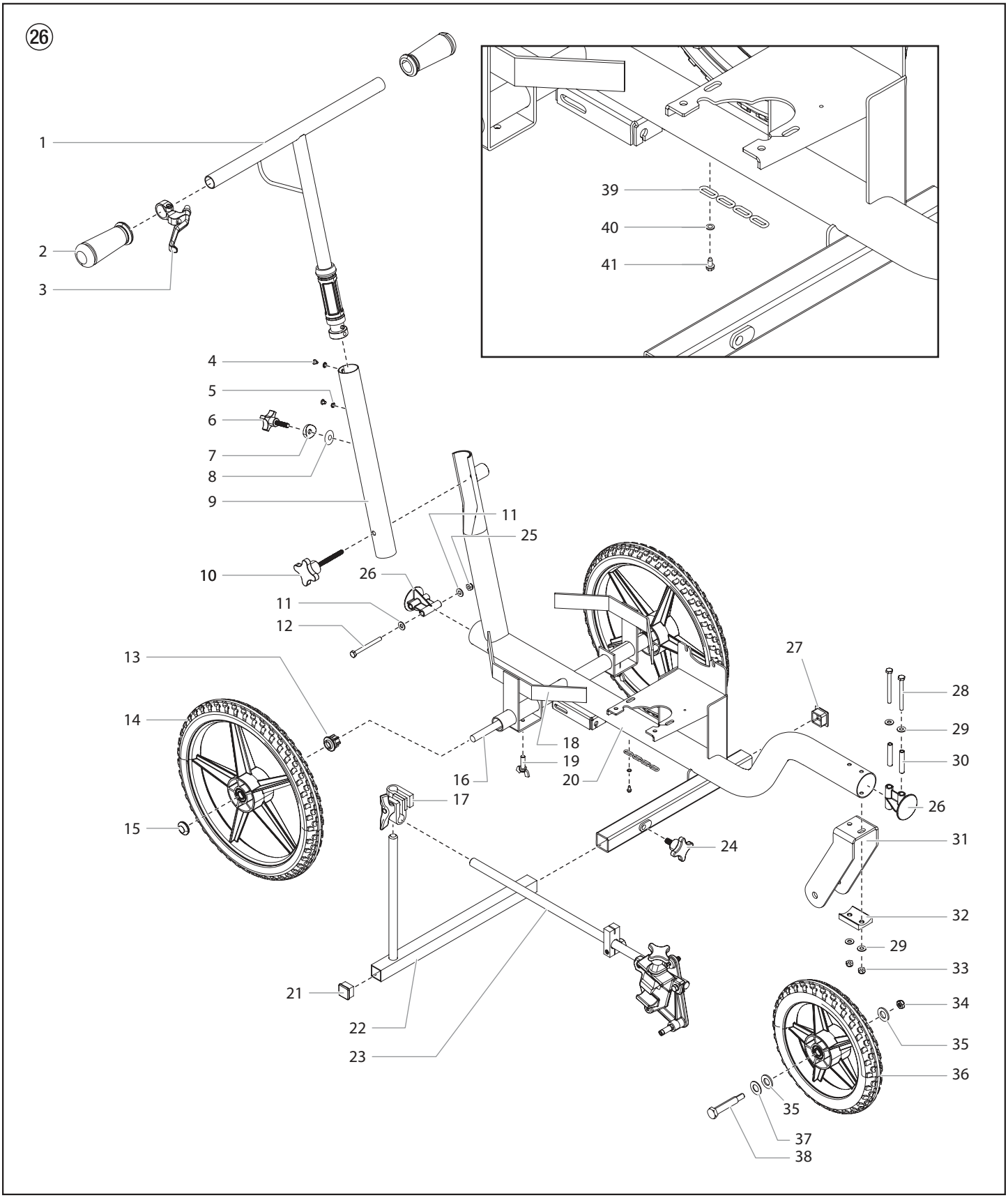


#	PL550	(GB) Description	(D) Benennung	(F) Description
1	0512387	Top nut	Obere Mutter	Écrou de dessus
2	0516302	Upper packing	Obere Packung	Garniture d'étanchéité supérieure
3	0516300	Hose fitting	Schlaucharmatur	Raccord de tuyau
4	------	Dowel pin	Spannstift	Goupille
5	0293931	Pump housing assembly (includes item 4)	Baugruppe Pumpgehäuse (beinhaltet Pos. 4)	Dispositif de boîtier de la pompe (inclut l'article 4)
6	0290122	Piston assembly	Kolbenbaugruppe	Piston
7	0512533	Lower seal	Untere Dichtung	Joint d'étanchéité inférieur
8	759-379	Sureflo valve assembly	Baugruppe Sureflo Ventil	Soupape Sureflo
9	9805251	Screw	Schraube	Vis
10	0293935	Microswitch assembly	Baugruppe Mikroschalter	Ensemble du microcommutateur
11	9805274	Screw	Schraube	Vis
12	858-003	Washer	Scheibe	Rondelle
13	759-107	Screw	Schraube	Vis
14	0293936	Clutch assembly (includes items 9-10)	Baugruppe Kupplung (beinhaltet Pos. 9-10)	Bloc d'embrayage (inclut les articles 9 et 10)
15	0293483	Gearbox gasket	Dichtung Getriebe	Joint statique de la boîte d'engrenages
16	0293938	Gear assembly	Baugruppe Getriebe	Engrenage
17	759-222	Plug	Stopfen	Bouchon
18	0293588	Plug	Stopfen	Bouchon
19	759-380	Relief valve assembly	Baugruppe Ablassventil	Soupape de retour
20	9885553	Return tube fitting	Armatur Rücklaufschlauch	Raccord du tube de retour
21	0293939	Transducer assembly	Baugruppe Wandler	Assemblage du transducteur
22	0293499	Throttle cable nut	Mutter Drosselkabel	Écrou du câble de l'étrangleur
23	0293940	Access cover	Abdeckung	Couvercle d'accès
24	9805410	Screw	Schraube	Vis
25	0293941	Adjustment rod assembly	Baugruppe Stellstange	Assemblage de la tige de réglage
26	0293943	Engine	Motor	Moteur
	759-365	Fluid section repacking kit	Fluidabschnitt Repacking-Kit	Trousse de garnitures de la section des liquides

(GB) Cart Assembly

(D) Wagenbaugruppe

(F) Ensemble de chariot



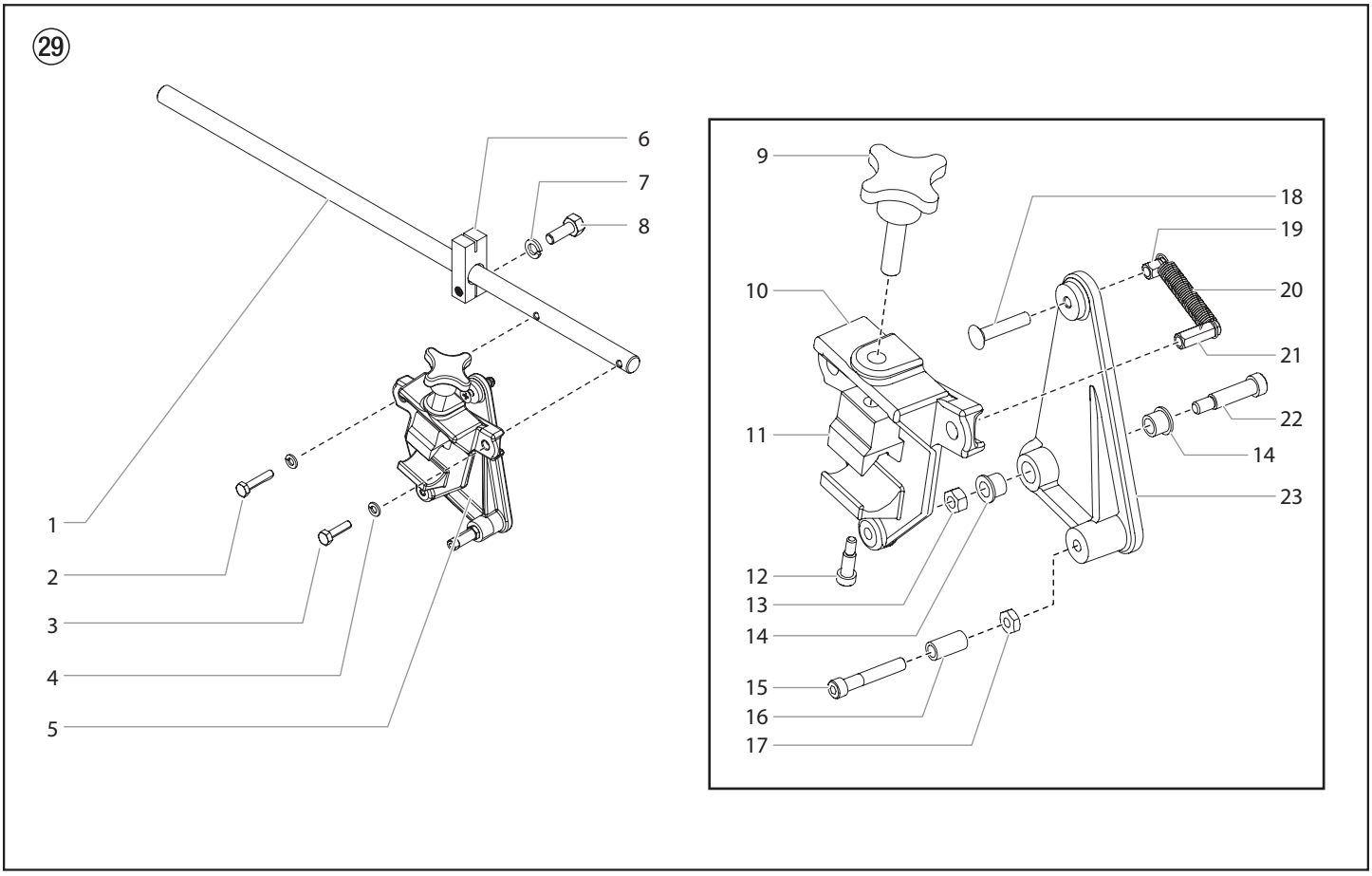
#	PL550	(GB) Description	(D) Benennung	(F) Description
1	0293945	Handle assembly	Baugruppe Handgriff	Ensemble de poignée
2	424-245	Handle grip	Handgriff	Poignée
3	759-215	Lever assembly	Hebelbaugruppe	Levier
4	856-921	Screw	Schraube	Vis
5	856-002	Washer	Scheibe	Rondelle
6	0293508	Adjustment knob	Einstellknopf	Bouton de réglage
7	0293521	Handle spacer	Abstandhalter Handgriff	Entretoise de la poignée
8	0293594	Rubber film	Gummifolie	Film en caoutchouc
9	0293949	Middle tube	Mittlerer Schlauch	Tube moyen
10	0293537	Knob	Knopf	Bouton
11	858-001	Washer	Scheibe	Rondelle
12	0293507	Screw	Schraube	Vis
13	0516571	Bushing	Buchse	Manchon
14	759-293A	Wheel (2)	Rad (2)	Roue (2)
15	9890113	Wheel cap	Raddeckel	Enjoliveur de roue
16	759-194	Axle	Achse	Essieu
17	759-329	Clamp assembly	Baugruppe Klemme	Ensemble de serrage
18	759-283	Bucket holder	Eimerhalterung	Support à sceau
19	759-320	Screw	Schraube	Vis
20	0293947	Cart weldment	Schweißkonstruktion Wagen	Assemblage soudé du chariot
21	756-056	Plug	Stopfen	Bouchon
22	759-188	Gun post assembly	Baugruppe Pistolenständer	Assemblage du poteau à pistolet
23*	0509171A	Gun holder assembly (see separate listing)	Baugruppe Pistolenhalterung (siehe separate Liste)	Ensemble de support à pistolet (voir liste séparée)
24	759-306	Knob	Knopf	Bouton
25	770-144	Nut	Mutter	Écrou
26	0293519	Plug	Stopfen	Bouchon
27	757-055	Plug	Stopfen	Bouchon
28	9805411	Screw	Schraube	Vis
29	858-001	Washer	Scheibe	Rondelle
30	0293596	Tube spacer	Abstandhalter Schlauch	Entretoise de tuyau
31	0293942	Fork leg	Gabelbein	Jambe de fourche
32	0293946	Wheel support	Radstütze	Support de roue
33	770-144	Nut	Mutter	Écrou
34	759-456	Nut	Mutter	Écrou
35	0293581	Spacer	Abstandhalter	Entretoise
36	759-298	Wheel	Rad	Roue
37	759-439	Washer	Scheibe	Rondelle
38	0293516	Front axle	Vordere Achse	Essieu avant
39	759-326	Grounding chain	Erdungskette	Chaînette de mise à la terre
40	759-440	Washer	Scheibe	Rondelle
41	759-325	Screw	Schraube	Vis
	0293970	Cable assembly kit	Kabelbaugruppesatz	Trousse de ensemble de câbles

* See separate listing / Siehe separate Auflistung / voir la liste de pièces distincte

(GB) Gun Holder Assembly

(D) Baugruppe Pistolenhalter

(F) Ensemble de support à pistolet

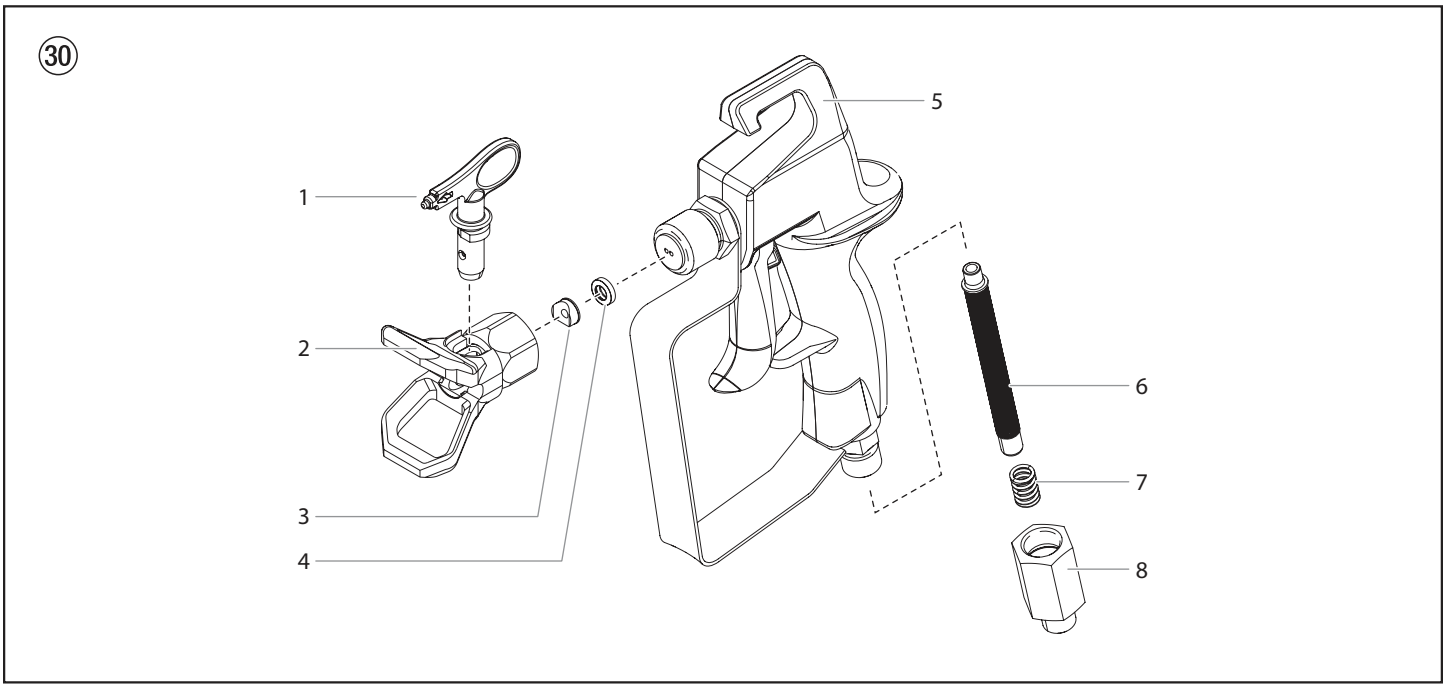


#	PL550	(GB) Description	(D) Benennung	(F) Description
1	759-415	Support arm	Stützarm	Bras de support
2	858-644	Screw	Schraube	Vis
3	858-636	Screw	Schraube	Vis
4	858-002	Washer	Scheibe	Rondelle
5	-------	Gun holder assembly (includes items 9-23)	Baugruppe Pistolenhalterung (beinhaltet Pos. 9-23)	Ensemble de support à pistolet (inclut les articles 9 à 23)
6	759-414	Clamp	Klammer	Attache
7	0509292	Washer	Scheibe	Rondelle
8	862-436	Screw	Schraube	Vis
9	756-034	Clamping knob	Klemmungsknopf	Bouton de serrage
10	424-201A	Gun holder	Spritzpistolenhalter	Support du pistolet
11	759-316	Clamp block	Klemmblock	Bloc de blocage
12	756-037	Screw	Schraube	Vis
13	858-601	Nut	Mutter	Écrou
14	424-248	Flange bearing (2)	Flanschlager (2)	Palier applique (2)
15	858-653	Screw	Schraube	Vis
16	424-249	Sleeve bearing	Gleitlager	Palier applique
17	858-603	Nut	Mutter	Écrou
18	703-079	Screw	Schraube	Vis
19	759-056	Spring holder (short)	Federhalter (kurz)	Support de ressort (court)
20	0509781	Return spring	Rückholfeder	Ressort de rappel
21	759-057	Spring holder (long)	Federhalter (lang)	Support de ressort (long)
22	860-936	Screw	Schraube	Vis
23	424-202	Lever	Hebel	Levier

(GB) Spray Gun

(D) Spritzpistole

(F) Pistolet pulvérisateur

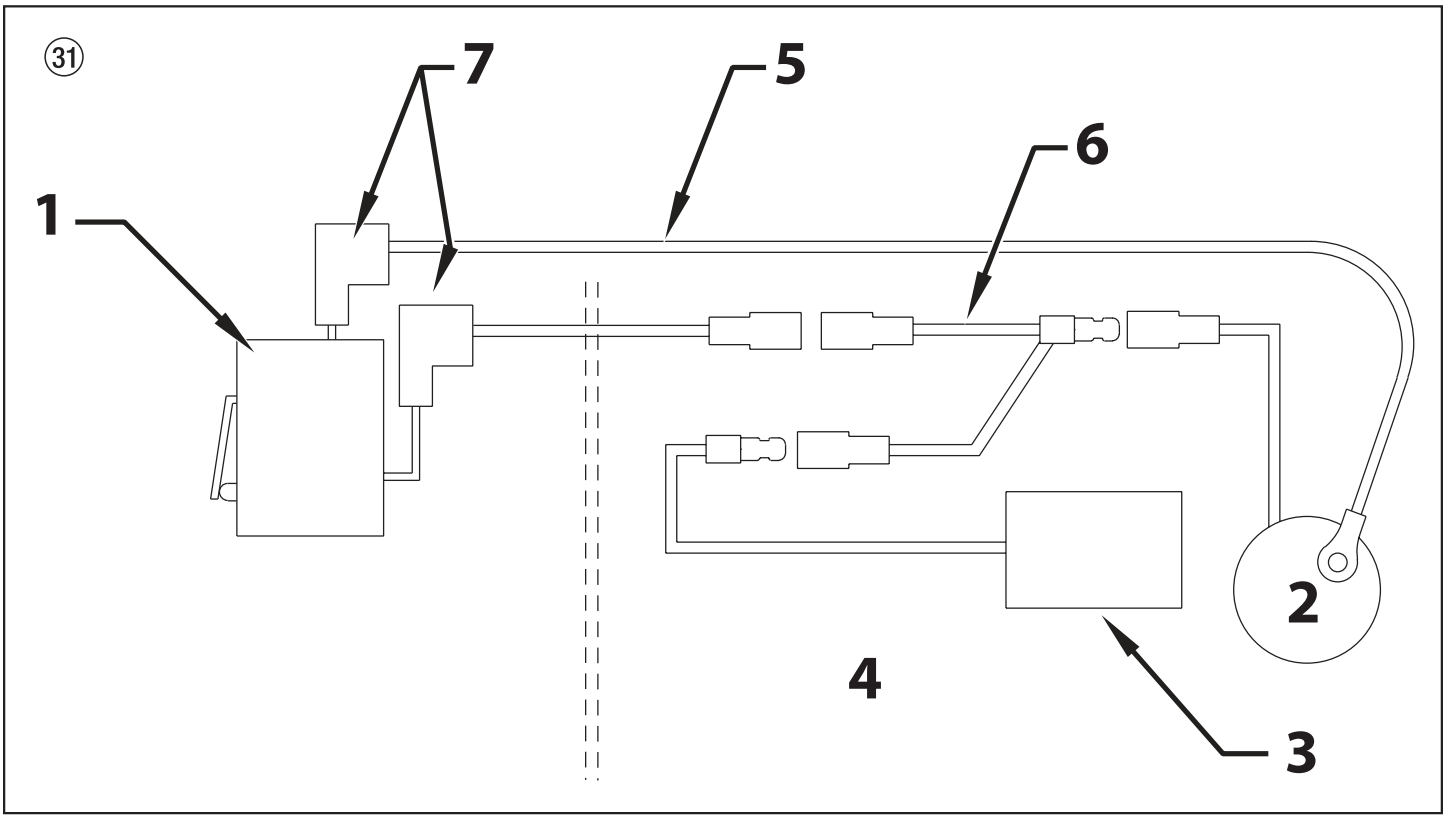


#	PL550	(GB) Description	(D) Benennung	(F) Description
1	697-419	Tip assembly (not included with spray gun)	Düsenbaugruppe (nicht in der Spritzpistole enthalten)	Embout (non inclus avec le pistolet pulvérisateur)
2	0289228	Guard assembly	Baugruppe Schutzvorrichtung	Ensemble du protecteur
3	651-020	Tip seal	Düsendichtung	Joint de buse
4	651-040	Tip seal retainer	Halterung Düsendichtung	Disque de retenue du joint de buse
5	759-369	Gun assembly	Pistolenbaugruppe	Ensemble de pistolet
6	0515252	Filter, fine (white)	Filter, fein (weiß)	Filtre, qualité fine (blanc)
7	0043590	Spring	Feder	Ressort
8	0278357	Fitting	Anschluss	Raccord

(GB) Connection Diagram

(D) Schaltplan

(F) Schéma électrique



#	PL550	(GB) Description	(D) Benennung	(F) Description
1	0293935	Microswitch	Mikroschalter	Microcommutateur
2	-------	Engine	Benzinmotor	Moteur
3	0293930	Shutoff switch	Abschaltknopf	Commutateur d'arrêt
4	-------	Engine compartment	Motorraum	Compartiment moteur
5	0293145	Wire assembly, ground	Baugruppe Erdungsleitung	Ensemble de câbles, mis à la terre
6	759-340	Wire assembly	Leitungsstrang	Groupe de fils
7	-------	Connector, 90° female quick connect (2)	Steckverbinder, 90° weiblich (2)	Connecteur, 90° femme (2)

All electrical work should be performed by an authorized service center.

Alle elektrischen Arbeiten müssen von einem autorisierten Kundenservice durchgeführt werden.

Tous les travaux électriques doivent être effectués par un centre d'entretien reconnu.

(GB) Tip Chart

(D) Streifendüsentabelle

(F) Tableau de buse

#	Width Linienbreite Largeur de ligne	Orifice Oeffnungs-grösse Orifice	Common Uses	Gebräuchliche Anwendungen	Utilisations habituelles
			Stencils & Athletic Courts	**Schablonen & Sportplätze**	**Modèles et terrains de sports**
697-213	2″ (51 mm)	.013″ (,33 mm)	Light film (use 100 mesh filter)	Leichter Belag (Verwenden Sie Filterfeinheit 100)	Film léger (utiliser un filtre à tamis 100)
697-413	4″ (102 mm)	.013″ (,33 mm)	Light film (use 100 mesh filter)	Leichter Belag Verwenden Sie Filterfeinheit 100)	Film léger (utiliser un filtre à tamis 100)
697-215	2″ (51 mm)	.015″ (,38 mm)	Alkyd only, light film	Nur Alkyd, Leichter Belag	Alkyd uniquement, Film léger
697-415	4″ (102 mm)	.015″ (,38 mm)	Light film	Leichter Belag	Film léger
697-615	6″ (152 mm)	.015″ (,38 mm)	Light film	Leichter Belag	Film léger
697-217	2″ (51 mm)	.017″ (,43 mm)	Alkyd only, heavy film	Nur Alkyd, Schwerer Belag	Alkyd uniquement, Film épais
			Most traffic paints	**Meiste Verkehrsfarben**	**La plupart des signalisations sur route**
697-417	4″ (102 mm)	.017″ (,43 mm)	Medium film	Mittelstarker Belag	Film moyen
697-617	6″ (152 mm)	.017″ (,43 mm)	Light film	Leichter Belag	Film léger
697-219	2″ (51 mm)	.019″ (,48 mm)	Medium film	Mittelstarker Belag	Film moyen
697-419	4″ (102 mm)	.019″ (,48 mm)	Heavy film	Schwerer Belag	Film épais
697-619	6″ (152 mm)	.019″ (,48 mm)	Medium film	Mittelstarker Belag	Film moyen
697-421	4″ (102 mm)	.021″ (,53 mm)	Heavy film	Schwerer Belag	Film épais
697-621	6″ (152 mm)	.021″ (,53 mm)	Light film	Leichter Belag	Film léger
697-821	8″ (203 mm)	.021″ (,53 mm)	Light film	Leichter Belag	Film léger
697-423	4″ (102 mm)	.023″ (,58 mm)	Heavy film	Schwerer Belag	Film épais
697-623	6″ (152 mm)	.023″ (,58 mm)	Medium film	Mittelstarker Belag	Film moyen
697-823	8″ (203 mm)	.023″ (,58 mm)	Medium film	Mittelstarker Belag	Film moyen
697-425	4″ (102 mm)	.025″ (,64 mm)	Very heavy film	Sehr Schwerer Belag	Film très épais
697-625	6″ (152 mm)	.025″ (,64 mm)	Heavy film	Schwerer Belag	Film épais
697-823	8″ (203 mm)	.025″ (,64 mm)	Heavy film	Schwerer Belag	Film épais
697-427	4″ (102 mm)	.027″ (,69 mm)	High speed, light film	Hochgeschwindigkeit, Leichter Belag	Haute vitesse, Film léger
697-627	6″ (152 mm)	.027″ (,69 mm)	Heavy film	Meiste Verkehrsfarben - Schwerer Belag	Film épais
697-827	8″ (203 mm)	,027″ (,69 mm)	Heavy film	Meiste Verkehrsfarben - Schwerer Belag	Film épais
697-429	4″ (102 mm)	.029″ (,74 mm)	High speed, medium film	Hochgeschwindigkeit, Mittelstarker Belag	Haute vitesse, Film moyen
697-629	6″ (152 mm)	.029″ (,74 mm)	High speed, light film	Hochgeschwindigkeit, Leichter Belag	Haute vitesse, Film léger
697-829	8″ (203 mm)	.029″ (,74 mm)	High speed, light film	Hochgeschwindigkeit, Leichter Belag	Haute vitesse, Film léger
697-431	4″ (102 mm)	.031″ (,79 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais
697-631	6″ (152 mm)	.031″ (,79 mm)	High speed, medium film	Hochgeschwindigkeit, Mittelstarker Belag	Haute vitesse, Film moyen
697-831	8″ (203 mm)	.031″ (,79 mm)	High speed, medium film	Hochgeschwindigkeit, Mittelstarker Belag	Haute vitesse, Film moyen
697-435	4″ (102 mm)	.035″ (,89 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais
697-635	6″ (152 mm)	.035″ (,89 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais
697-835	8″ (203 mm)	.035″ (,89 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais
			All traffic paints	**Alle Verkehrsfarben**	**Toutes les peintures pour la signalisation routière**
697-439	4″ (102 mm)	.039″ (,99 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais
697-639	6″ (152 mm)	.039″ (,99 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais
697-839	8″ (203 mm)	.039″ (,99 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais
697-443	4″ (102 mm)	.043″ (1,09 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais
697-643	6″ (152 mm)	.043″ (1,09 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais
697-843	8″ (203 mm)	.043″ (1,09 mm)	High speed, heavy film	Hochgeschwindigkeit, Schwerer Belag	Haute vitesse, Film épais

PL550	(GB) Description	(D) Benennung	(F) Description
	**Liquid Shield Plus** Cleans and protects spray systems against rust, corrosion and premature wear. Now with -25ºF anti-freeze protection.	**Liquid Shield Plus** Reinigt und schützt Sprühsysteme vor Rost, Korrosion und vorzeitigem Verschleiß. Jetzt mit Frostschutz bis -25°.	**Liquid Shield Plus** Liquid Shield Plus nettoie les systèmes de vaporisation et les protège de la rouille, de la corrosion et de l'usure prématurée. Il offre désormais une protection antigel -25°.
314-483	Liquid shield Plus, 4 ounce bottle	Liquid shield Plus, Flasche mit 112 g Inhalt	Liquid shield Plus, Bouteille d'environ 112 ml (4 onces)
314-482	Liquid shield Plus, 1 quart bottle	Liquid shield Plus, Flasche mit 1 L Inhalt	Liquid shield Plus, 1 bouteille d'environ 500 ml (1 pinte)
	**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.	**Piston Lube** Mit spezieller Formel, die vermeidet, dass Materialien an der Kolbenstange haften bleiben und diese so an den oberen Dichtungen scheuern. Durch das Kolbenschmiermittel werden alle Materialien, die sich im Schmiergefäß sammeln können, beseitigt und ein Antrocknen wird verhindert.	**Piston Lube** Spécialement formulé pour éviter l'adhérence des produits à la tige des pistons qui endommage les joints supérieurs. Piston Lube décompose tous les matériaux accumulés dans la coupelle à huile qui empêchent le séchage de celle-ci.
314-481	Piston Lube, 4 ounce bottle	Piston Lube, Flasche mit 112 g Inhalt	Piston Lube, Bouteille d'environ 112 ml (4 onces)
314-480	Piston Lube, 1 quart bottle	Piston Lube, Flasche mit 1 L Inhalt	Piston Lube, 1 bouteille d'environ 500 ml (1 pinte)
	Stencil Kit Stencils are molded of 1/16" (1.5 mm) Duroplast polyethylene. This material is very durable and lays flat on the surface being stenciled for clean and accurate marking.	**Schablonen-Kit** Die Schablonen bestehen aus 1,5 mm Duroplast Polyethylen. Dieses Material ist sehr beständig und liegt flach auf der Oberfläche auf, die schabloniert werden soll und ermöglicht genaues Markieren.	**Trousse de pochoirs** Les pochoirs sont moulés de polyéthylène Duroplast de 1,5 mm (1/16 po). Ce matériau est très résistant et repose à plat sur la surface à peindre pour un marquage net et précis.
0293932	Stencil kit, Handicap (symbol)	Schablonierungs-Kit, Hindernis (Symbol)	Trousse de pochoirs, stationnement pour personne handicapée
0290933	Stencil kit, large	Schablonierungs-Kit, groß	Trousse de pochoirs, grand
0290934	Stencil kit, small	Schablonierungs-Kit, klein	Trousse de pochoirs, petit

J. Wagner GmbH Otto Lilienthal-Str.18 D-88677 Markdorf

D

CE Konformitätserklärung

Hiermit erklären wir, daß die Bauart vom Airless Hochdruck-Spritzgerät, benzinbetrieben

GB

CE Declaration of conformity

Herewith we declare that the supplied version of
Airless high-pressure spraying unit, gas powered

F

CE Déclaration de conformité

Par la présente, nous déclarons, que le type de
Groupe de projection à haute pression, à essence

I

CE Dichiarazione di conformitá

Si dichiara che il modello
Impianto per la verniciatura a spruzzo ad alta pressione Airless, azionato a benzina

TITAN PowrLiner 550, TITAN PowrLiner 850

folgenden einschlägigen Bestimmungen entspricht:

2006/42 EG

Angewendete harmonisierte Normen, insbesondere:

complies with the following provisons applying to it:

2006/42 EC

Applied harmonized standards, in particular:

correspond aux dispositions pertinentes suivantes:

2006/42 CE

Normes harmonisée utilisées, notamment:

é conforme alle segenti disposizioni pertinenti:

2006/42 CE

Norme armonizzate applicate, in particolare:

EN ISO 12100: 2010, DIN EN 1953: 1998+A1:2009

Markdorf, 14.03.2012
Location, Date

Signature

Senior Vice President
Global Product Planning & Strategy

Hr. T. Jeltsch (Mr.)

Vice President Engineering

Hr. J. Ulbrich (Mr.)
Dokumentationsverantwortlicher
Responsible person for documents
Responsable de la documentation
Responsabile della documentazione

Wagner-Nr. 2328194

WAGNER

J. Wagner GmbH Otto Lilienthal-Str.18 D-88677 Markdorf

NL

CE **Konformiteitsverklaring**

hiermede verklaren wij, dat de in de handel gebrachte machine
Airless – hogedruk-spuitapparaat, gas aangedreven

DK

CE **Konformitetserklæring**

Hermed erklæres, at produkttypen
Airless – højtrykssprøjteapparat, benzindrevet

S

CE **Försäkran**

Härmed intygar vi att
Airless – högtryckspruta, bensindrift

E

CE **Declaración de conformidad**

por la presente, declaramos que la Airless equipo de puverización de alta presión, impulsado por gasolina

P

CE **Declaracão de conformidade**

Com a presente, declaramos que o Aparelho de pulverização
de alta pressão Airless, impulsionado a gasolina

TITAN PowrLiner 550, TITAN PowrLiner 850

voldoet aan de eisen van de in het vervolg genoemde bepalingen:	er i overensstemmelse med følgende bestemmelser:	är konstruerad enligt följande gällande bestämmelser:	satisface las disposiciones pertinentes siquientes:	está em conformidade com as disposições pertinentes, a saber:
2006/42 EG	**2006/42 EF**	**2006/42 EC**	**2006/42 CE**	**2006/42 CE**
Gebruikte geharmoniseerde normen, in het bijzondere:	Harmoniserede standarder, der blev anvendt, i saerdeleshed:	Tillämpade harmoniserade standarder, i synnerhet:	Normas armonizadas utilizadas, particularmente:	Normas harmonizadas utilizadas, em particular:

EN ISO 12100: 2010, DIN EN 1953: 1998+A1:2009

Markdorf, 14.03.2012
Location, Date

Signature

Senior Vice President
Global Product Planning & Strategy

Hr. T. Jeltsch (Mr.)

Vice President Engineering

Hr. J. Ulbrich (Mr.)
Documentatieverantwoordelijke
Dokumentationsansvarlig
Dokumentationsansvarig
Responsable de la documentación
Responsável pela documentação

Wagner-Nr. 2328194

GB

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.

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Garantie

Titan Tool, Inc., (“Titan”) garantiert, dass zum Zeitpunkt der Lieferung an den Käufer („Endverbraucher”) die Ausrüstung, die von dieser Garantie abgedeckt ist, frei von Material- und Fabrikationsfehler ist. Mit Ausnahme spezieller, eingeschränkter oder erweiterter Garantie, die Titan bekannt gegeben hat, ist die Gewährleistungsverpflichtung von Titan beschränkt auf den kostenlosen Austausch oder Nachbesserung für jene Teile, die, nachdem dies Titan nachvollziehbar nachgewiesen wurden, binnen zwölf (12) Monaten nach Verkauf an den Endverbraucher sich als fehlerhaft erweisen. Die Garantie greift nur, wenn das Gerät gemäß den Empfehlungen und Anweisungen von Titan installiert und bedient wurde.

Diese Garantie gilt nicht bei Beschädigung oder Abnutzung durch Abrieb, Korrosion oder unsachgemäße Benutzung, Unachtsamkeit, Unfall, unsachgemäße Installation, Verwendung von Ersatzteilen, die nicht von Titan stammen bzw. wenn Änderungen an dem Gerät vorgenommen wurden wodurch eine normale Benutzung beeinträchtigt wird

Defekte Teile müssen an den autorisierten Titan-Händler/ die autorisierte Titan-Niederlassung zurückgeschickt werden. Alle Transportkosten, einschließlich der Rücksendung an die Fabrik, falls erforderlich, sind vom Endverbraucher zu tragen und müssen im Voraus bezahlt werden. Repariertes oder ausgetauschtes Zubehör wird auf Kosten des Endverbrauchers nach Vorauszahlung der Transportkosten zurückgeschickt

ES GIBT SONST KEINE ANDERE MÄNGELGARANTIE. TITAN SCHLIESST HIERMIT ALLE UND JEDE STILLSCHWEIGENDE GARANTIE AUS, EINSCHLIESSLICH, JEDOCH NICHT BESCHRÄNKT AUF MARKTFÄHIGKEIT UND EIGNUNG FÜR EINEN BESTIMMTEN ZWECK, SOWEIT GESETZLICH ZULÄSSIG. DIE DAUER ALLER STILLSCHWEIGENDEN GARANTIEN, DIE NICHT AUSGESCHLOSSEN WERDEN KÖNNEN, SIND BESCHRÄNKT AUF DIE IN DER AUSDRÜCKLICHEN GARANTIE FESTGELEGTE DAUER. TITAN HAFTET IN KEINER WEISE ÜBER DEN KAUFPREIS HINAUS. DIE HAFTUNG FÜR FOLGESCHÄDEN, ZUFÄLLIGE SCHÄDEN ODER SPEZIELLE SCHÄDEN UNTER JEDER UND ALLEN GARANTIEN IST AUSGESCHLOSSEN SOWEIT GESETZLICH ZUGELASSEN.

TITAN ÜBERNIMMT KEINE GARANTIE UND SCHLIESST ALLE STILSCHWEIGENDEN GARANTIEN AUF MARKTFÄHIGKEIT UND EIGNUNG FÜR EINEN BESTIMMTEN ZWECK BEZÜGLICH ZUBEHÖR, AUSRÜSTUNG, MATERIALIEN UND KOMPONENTEN AUS, DIE VON TITAN VERKAUFT, JEDOCH NICHT HERGESTELLT WURDEN. JENE VON TITAN VERKAUFTEN, JEDOCH NICHT VON TITAN HERGESTELLTEN KOMPONENTEN (WIE Z.B. GASMOTOREN, SCHALTER, SCHLÄUCHE, ETC.) UNTERLIEGEN DER GEWÄHRLEISTUNG DES JEWEILIGEN HERSTELLERS, SOFERN DIESE GEWÄHRT WERDEN. TITAN UNTERSTÜTZT DEN KÄUFER IN ANGEMESSENER WEISE, WENN ES UM ANSPRÜCHE WEGEN DER VERLETZUNG VON GEWÄHRLEITUNGEN GEHT.

Garantie

Titan Tool, Inc. (“Titan”) garantit qu’au moment de la livraison à l’acheteur initial (“Utilisateur”), l’appareil couvert par la présente garantie sera exempt de défauts de matériaux et de fabrication. Exception faite de toute garantie particulière ou limitée et de toute extension de garantie publiées par Titan, la responsabilité de celui-ci se limite, en vertu de la présente garantie, au remplacement ou à la réparation sans frais des pièces dont le caractère défectueux aura été démontré de manière satisfaisante pour Titan, dans un délai de douze (12) mois après la date d’achat par l’Utilisateur. Cette garantie ne sera applicable que si l’appareil a été installé et utilisé conformément aux recommandations et directives de Titan.

Cette garantie ne sera pas applicable dans les cas d’endommagement ou d’usure dus à l’abrasion, la corrosion, un mauvais usage, la négligence, un accident, une installation incorrecte, un remplacement par des composants non fournis par Titan ou toute autre intervention non autorisée de nature à nuire au fonctionnement normal de l’appareil.

Les pièces défectueuses devront être envoyées à un centre de service / vente Titan autorisé. Les frais de transport couvrant y compris le retour à l’usine, seront, le cas échéant, prépayés par l’Utilisateur. Après réparation ou remplacement, les pièces seront renvoyées à ce dernier par transport prépayé.

AUCUNE AUTRE GARANTIE EXPRESSE N’EST ACCORDÉE. TITAN REJETTE TOUTE AUTRE GARANTIE IMPLICITE Y COMPRIS, NOTAMMENT, LES GARANTIES DE QUALITÉ MARCHANDE ET DE COMPATIBILITÉ AVEC UN USAGE PARTICULIER, DANS LES LIMITES PERMISES PAR LA LOI.

LA DURÉE DES GARANTIES IMPLICITES NE POUVANT FAIRE L’OBJET D’UNE RENONCIATION SE LIMITE À LA PÉRIODE INDIQUÉE DANS LA GARANTIE EXPRESSE.

LA RESPONSABILITÉ DE TITAN NE SAURAIT EN AUCUN CAS ETRE ENGAGÉE POUR UN MONTANT SUPÉRIEUR À CELUI DU PRIX D’ACHAT. TITAN EXCLUT TOUTE RESPONSABILITÉ RELATIVE AUX DOMMAGES INDIRECTS, ACCESSOIRES OU PARTICULIERS, DANS LES LIMITES PRÉVUES PAR LA LOI.

TITAN NE DONNE AUCUNE GARANTIE ET DÉCLINE TOUTE GARANTIE IMPLICITE DE QUALITÉ MARCHANDE ET DE COMPATIBILITÉ AVEC UN USAGE PARTICULIER EN CE QUI CONCERNE LES ACCESSOIRES, L’APPAREIL, LES MATÉRIAUX OU LES COMPOSANTS VENDUS MAIS NON FABRIQUÉS PAR TITAN. CES DERNIERS ÉLÉMENTS, VENDUS MAIS NON FABRIQUÉS PAR TITAN (MOTEURS À ESSENCE, COMMUTATEURS, FLEXIBLES, ETC.), SONT SOUMIS, LE CAS ÉCHÉANT, À LA GARANTIE DU FABRICANT. TITAN S’ENGAGE À PORTER ASSISTANCE AUX ACHETEURS, DANS LES LIMITES DU RAISONNABLE, POUR LA CONSTITUTION DE RÉCLAMATIONS RELATIVES AU NON RESPECT DE CES GARANTIES.

PowrLiner 550

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