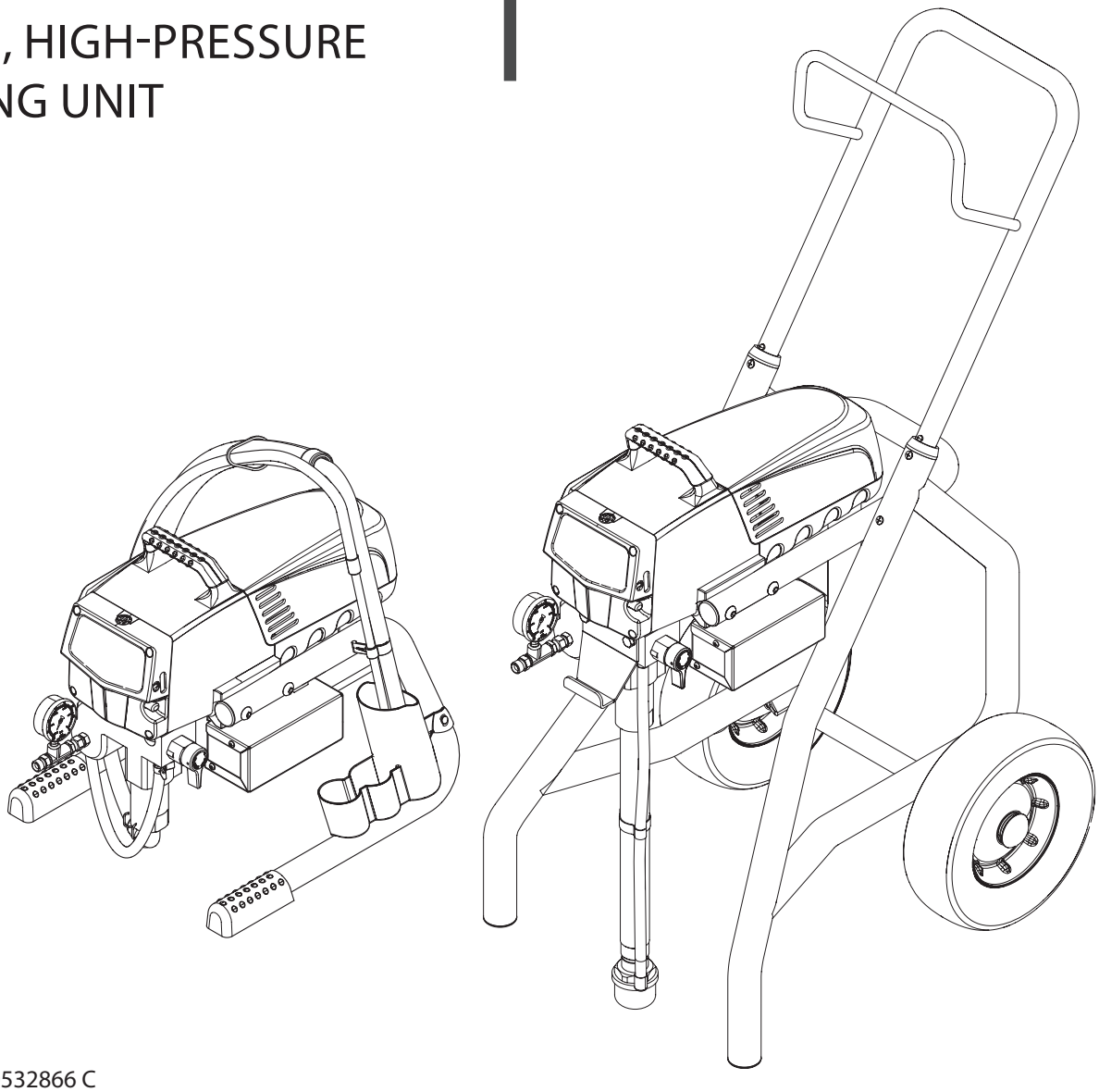
TITAN®

OPERATING MANUAL

IMPACT 540

AIRLESS, HIGH-PRESSURE SPRAYING UNIT



MODEL

0532031

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TRANSLATION OF THE ORIGINAL OPERATING MANUAL

1 GENERAL SAFETY INSTRUCTIONS

WARNING!  ***Read all safety information, instructions, illustrations and technical data provided with this power tool.*** *Failure to observe the following instructions may cause electric shock, fire and/or severe injuries.* ***Keep all safety information and instructions for future reference.*** *The term "power tool" used in this safety information refers to mains-operated power tools (with power cable) and to battery-powered power tools (without power cable).*

1. Safety at the workplace

a) Keep your workplace clean and well lit. *Disorder or unlit workplaces may result in accidents.*

b) Do not work with the power tool in potentially explosive environments where there are flammable fluids, gases or dust. *Power tools generate sparks that can ignite the dust or vapors.*

c) Keep children and other persons away when using the power tool. *If distracted, you may lose control of the power tool.*

2. Electrical Safety

a) The connection plug of the power tool must fit in the socket. The plug may not be modified in any form. Do not use adaptor plugs together with protective-earthed tools. *Unmodified plugs and suitable sockets reduce the risk of an electric shock.*

b) Avoid physical contact with earthed surfaces such as pipes, heating elements, stoves and refrigerators. *The risk through electric shock increases if your body is earthed.*

c) Keep power tools away from rain or moisture. *Water penetrating into a power tool increases the risk of an electric shock.*

d) Do not misuse the power cord to carry the power tool, hang up the power tool or pull the plug out of the socket. Keep the power cord away from heat, oil, sharp edges or moving parts. *Damaged or entangled power cords increase the risk of an electric shock.*

e) If the power tool must be used in a moist environment, use a ground fault circuit interrupter. *Using a residual current operated circuit-breaker avoids the risk of electric shock.*

3. Safety of Persons

a) Be attentive. Pay attention to what you are doing and work sensibly with a power tool. Do not use the power tool if you are tired or under the influence of drugs, alcohol or medication. *One moment of carelessness when using the power tool may cause serious injuries.*

b) Wear personal safety equipment and always wear safety goggles *Wearing personal protective equipment, such as dust mask, non-slip safety shoes, safety helm or ear protection, depending on the type of power tools, reduces the risk of injury.*

c) Avoid accidental starting-up. Make sure that the power tool is switched off before you connect it to the power tool and/or battery, pick it up or carry it. *Accidents may happen if you have your finger on the switch while carrying the power tool or if the device is switched on when you connect it to the power supply.*

d) Remove setting tools or wrenches before switching on the power tool. *A tool or key in a rotating part of the power tool can cause injuries.*

e) Avoid an unnatural posture. Ensure that you are standing securely and have your balance at all times. *This allows you can better control the power tool in unexpected situations.*

f) Wear suitable clothing. Do not wear wide clothing or jewellery. Keep your hair, clothes and gloves away from moving parts. *Loose clothing, jewellery or long hair can be caught in moving parts.*

g) Do not lull yourself into a false sense of security and do not think yourself above the safety rules for electric tools, even if you are familiar with the electric tool following extensive practical experience. *Careless use can lead to serious injuries in fractions of a second.*

4. Usage and treatment of the electric tool

a) Do not overload the power tool. Use the power tool designed for the work that you are doing. *You work better and safer in the specified performance range if you use the suitable power tool.*

b) Do not use power tools whose switch is defective. *A power tool that cannot be switched on or off is dangerous and has to be repaired.*

c) Disconnect the plug from the socket and/or take out a removable battery before you make device adjustments, change accessories or put the power tool away. *This precautionary measure prevents the power tool from starting unintentionally.*

d) Store unused power tools so that they are inaccessible to children. Do not let persons use the tool who are not familiar with it or who have not read these instructions. *Power tools are dangerous when they are used by inexperienced persons.*

e) Maintain the power tool and insertion tools with care. Check whether moving device parts are working flawlessly and are not jamming, whether parts are broken or damaged so that as to impair the function of the power tool. Have damaged parts repaired before using the power tool. *Many accidents have their origin in power tools that have been maintained badly.*

f) Use the power tool, accessories, insert tools, etc. in accordance with these instructions and in a fashion specified for this special tool type. Take the working conditions and the activity to be carried out into consideration. *The use of power tools for purposes other than the intended ones can lead to dangerous situations.*

g) Keep the handles and grip surfaces dry, clean and free of oil and grease. Slippery handles and grip surfaces hamper safe operation and control of the electric tool in unforeseen situations.

5. Service

a) Only have your power tool repaired by a qualified specialist and only use original spare parts. *This ensures that the tool safety is maintained.*

b) If the supply cord is damaged, it must be replaced by the manufacturer or it's service agent or a similarly qualified person in order to avoid a safety hazard.

2 SAFETY REGULATIONS FOR AIRLESS SPRAYING

All local safety regulations in force must be observed.
The following safety regulations are to be observed in order to ensure safe handling of the Airless high-pressure spraying unit.

2.1 FLASH POINT

 Danger	Only spray coating materials with a flash point of 21 °C or higher. The flash point is the lowest temperature at which vapors develop from the coating material. These vapors are sufficient to form an inflammable mixture over the air above the coating material.

2.2 EXPLOSION PROTECTION

 Danger	Do not use the unit in work places which are covered by the explosion protection regulations. The unit is not designed to be explosion protected. Do not operate the device in explosive areas (zone 0, 1 and 2). Explosive areas are, for example, places where paints are stored and locations in direct proximity to the object being sprayed. Keep the device at least 3 m from the object you are spraying.

2.3 DANGER OF EXPLOSION AND FIRE FROM SOURCES OF IGNITION DURING SPRAYING WORK

 Danger	There must be no sources of ignition such as, for example, open fires, lit cigarettes, cigars or tobacco pipes, sparks, glowing wires, hot surfaces, etc. in the vicinity.

2.4 DANGER OF INJURY FROM THE SPRAY JET

 Danger 	Attention, danger of injury by injection! Never point the spray gun at yourself, other persons or animals. Only use the spray gun with spray jet touch protection. The spray jet must not come into contact with any part of the body. In working with Airless spray guns, the high spray pressures arising can cause very dangerous injuries. If contact is made with the spray jet, coating material can be injected into the skin. Do not treat a spray injury as a harmless cut. In case of injury to the skin by coating material or solvents, consult a doctor for quick and correct treatment. Inform the doctor about the coating material or solvent used.

2.5 SECURE SPRAY GUN AGAINST UNINTENDED OPERATION

Always secure the spray gun when mounting or dismounting the tip and in case of interruption to work.

2.6 RECOIL OF SPRAY GUN

Danger	When using a high operating pressure, pulling the trigger guard can effect a recoil force up to 15 N. If you are not prepared for this, your hand can be thrust backwards or your balance lost. This can lead to injury.

2.7 BREATHING EQUIPMENT AS PROTECTION AGAINST SOLVENT VAPORS

Wear breathing equipment during spraying work.

2.8 PREVENTION OF OCCUPATIONAL ILLNESSES

Wear safety goggles.
Wear hearing protection.
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.

2.9 MAX. OPERATING PRESSURE

The permissible operating pressure for the spray gun, spray gun accessories, unit accessories and high-pressure hose must not fall short of the maximum operating pressure of 22.1 MPa (221 bar).

2.10 HIGH-PRESSURE HOSE

Danger	Attention, danger of injury by injection! Wear and tear and kinks as well as usage that is not appropriate to the purpose of the device can cause leakages to form in the high-pressure hose. Liquid can be injected into the skin through a leakage.

- High-pressure hoses must be checked thoroughly before they are used.
- Replace any damaged high-pressure hose immediately.
- Never repair defective high-pressure hoses yourself!
- Avoid sharp bends and folds: the smallest bending radius is about 20 cm.
- Do **not drive over** the high-pressure hose. Protect against sharp objects and edges.
- Never pull on the high-pressure hose to move the device.
- Do not twist the high-pressure hose.
- Do not put the high-pressure hose into solvents. Use only a wet cloth to wipe down the outside of the hose.
- Lay the high-pressure hose in such a way as to ensure that it cannot be tripped over.

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

2.11 ELECTROSTATIC CHARGING (FORMATION OF SPARKS OR FLAMES)

Danger	Electrostatic charging of the unit may occur during spraying due to the flow speed of the coating material. These can cause sparks and flames upon discharge. The unit must therefore always be earthed via the electrical system. The unit must be connected to an appropriately-grounded safety outlet.

An 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 1 MΩ.

2.12 USE OF UNITS ON BUILDING SITES AND WORKSHOPS

The unit may only be connected to the mains network via a special feeding point with a residual-current device with INF ≤ 30 mA. An upstream circuit breaker (fuse) with 16 A (B or C characteristics) is required.

2.13 VENTILATION WHEN SPRAYING IN ROOMS

Adequate ventilation to ensure removal of the solvent vapors has to be ensured.

2.14 SUCTION INSTALLATIONS

The are to be provided by the unit user in accordance with the corresponding local regulations.

2.15 EARTHING OF THE OBJECT

The object to be coated must be earthed. (Building walls are usually earthed naturally)

2.16 COATING MATERIAL

Caution against dangers that can arise from the sprayed substance and observe the text and information on the containers or the specifications given by the substance manufacturer.
Do not spray any liquid of unknown hazard potential.

2.17 CLEANING THE UNIT

When cleaning the gun, only rinse when the nozzle is removed and rinse at low pressure.

 Danger	When cleaning the unit with solvents, the solvent should never be sprayed or pumped back into a container with a small opening (bunghole). An explosive gas/air mixture can arise. Only use an earthed container made from metal. To earth the gun, hold it firmly on the edge of the container.

 Danger	Danger of short-circuits caused by water ingression! Never spray down the unit with high-pressure or high-pressure steam cleaners.

2.18 WORK OR REPAIRS AT THE ELECTRICAL EQUIPMENT

These may only be carried out by a skilled electrician. No liability is assumed for incorrect installation. Unplug the power plug from the outlet before carrying out any repair work.

2.19 MAINTENANCE WORK AND BREAKS

Before carrying out any work on the device and during any work break, release the pressure in the spray gun and high-pressure hose. Secure the spray gun's trigger guard and switch off the device.

2.20 SETUP ON AN UNEVEN SURFACE

The front end must always point downwards in order to avoid sliding away.
If possible do not use the unit on an inclined surface since the unit tends to wander through the resulting vibrations.

2.21 OSCILLATION LEVEL

The specified oscillation level has been measured according to a standard test procedure and can be used to compare against electric tools. The oscillation level is also for determining an initial assessment of the vibrational strain.
Attention! The vibration emission value can differ from the specified value when the electric tool is actually in use, depending on how the electric tool is being used. It is necessary to specify safety measures to protect the operating personnel. These measures are based on an estimated shutdown during the actual conditions of use (all parts of the operating cycle are taken into consideration here, for example periods when the electric tool is switched off, and, when it is switched on but running without any load).

3 GENERAL VIEW OF APPLICATION / DESCRIPTION OF UNIT

3.1 APPLICATION

The unit performance is conceived so that its use is possible on building sites for small- to middle-area dispersion work.

EXAMPLES OF OBJECTS TO BE SPRAYED

The sprayer is able for all common varnishing jobs like doors, door frames, balustrades, furniture, woodencladding, fences, radiators (heating) and steel parts.

3.2 COATING MATERIALS

PROCESSIBLE COATING MATERIALS

i	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, release agents, oils, undercoats, primers, and fillers.

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.

i	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 20.000 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.

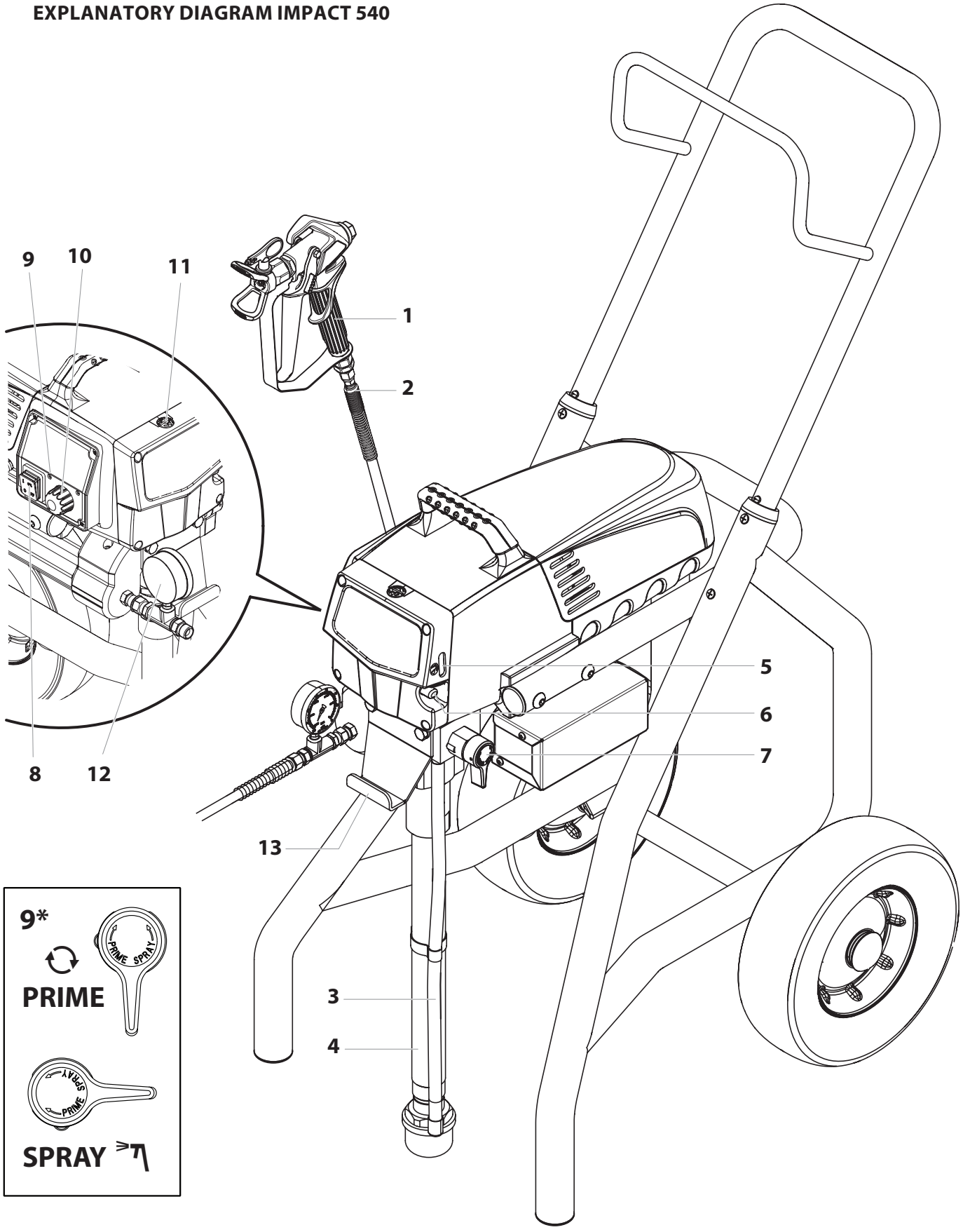
COATING MATERIALS WITH SHARP-EDGED ADDITIONAL MATERIALS

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

3.3 LEGEND FOR EXPLANATORY DIAGRAM IMPACT 540

1. Spray gun
2. High-pressure hose
3. Return hose
4. Suction hose
5. Oil level gauge
6. Oil button
7. Relief valve
   Lever position vertical – PRIME (circulation)
   Lever position horizontal – SPRAY ( )
8. ON/OFF switch
9. Control panel indicators
10. Pressure control knob
11. Oil cup for Piston Lube (Piston Lube prevents increased wear of the packings)
12. Manometer
13. Pail bracket

3.4 EXPLANATORY DIAGRAM IMPACT 540



3.5 TECHNICAL DATA

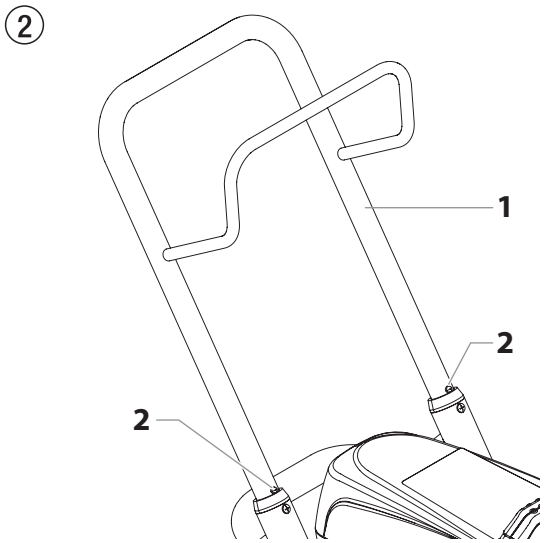
Voltage	
	220~240 VAC, 50/60 Hz
Max. current consumption	
	6.0 A
Power Cord	
	See page 86
Acceptance capacity	
	1035 Watt
Max. operating pressure	
	221 bar (22.1 MPa)
Volume flow at 12 MPa (120 bar) with water	
	2.3 l/min
Max tip size	
	0.024 inch – 0.61 mm
Max. temperature of the coating material	
	43°C
Max viscosity	
	20.000 MPa·s
Weight	
Cart	27.4 kg
Stand	17.7 kg
Special high-pressure hose	
	DN 6 mm, 15 m, connection thread M 16 x 1.5
Dimensions (L X W X H)	
Cart	611 x 481 x 734 mm
Stand	436 x 369 x 416 mm
Altitude	
	This equipment will operate correctly up to 2000 m above mean sea level
Vibration	
	Spray gun does not exceed 2.5m/s^2
Max sound pressure level	
	80 dB*

* Place of measurement: 1 m distance from unit and 1.60m above 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.



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 (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.

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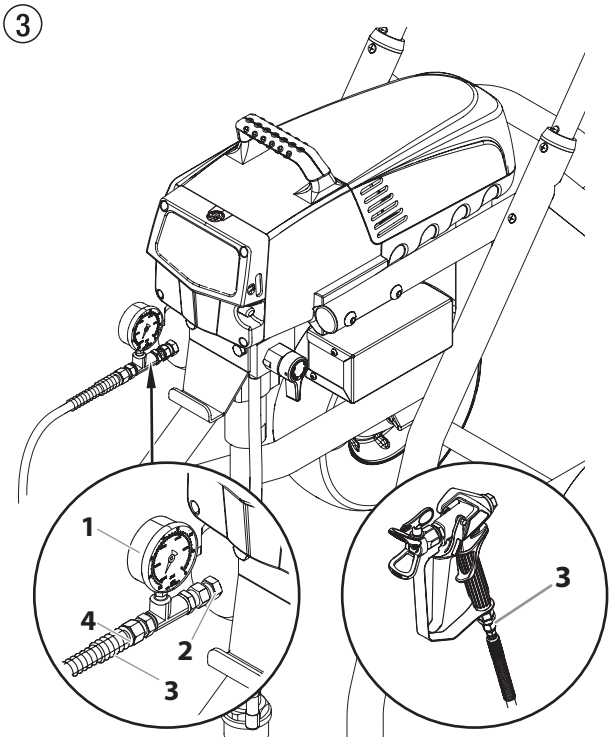

5. Remove the oil cup cap with a straight-slot screwdriver.
6. Fill the oil cup with Piston Lube (Fig. 4). Do not use too much Piston Lube, i.e. ensure that no Piston Lube drips into the coating material container.

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

7. Replace oil cup cap.
8. Press oil button 2-5 times to prime the oiler. Press once for every eight hours of usage to lubricate the fluid section.

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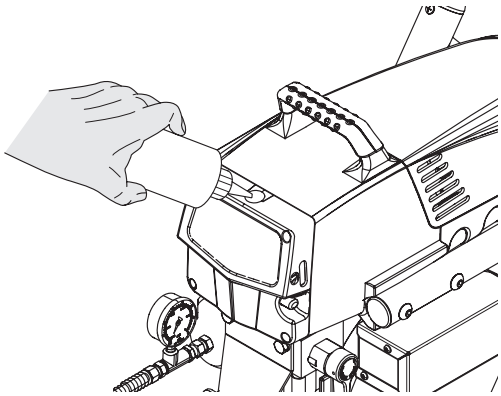

4.2 CONTROL PANEL INDICATORS

The following is a description of the control panel indicators.

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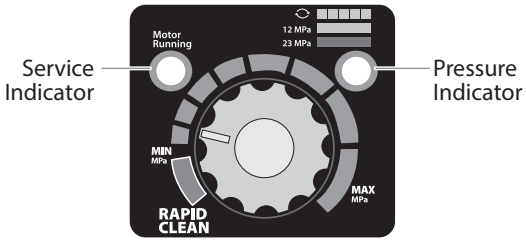

SERVICE INDICATOR

The Service indicator is on when the motor is commanded to run. This indicator is used by service centers to troubleshoot motor problems.

PRESSURE INDICATOR

The pressure indicator shows the current operating pressure of the sprayer. It has three different indications: blinking yellow, solid yellow, and solid green.

Blinking Yellow

When the pressure indicator is blinking yellow, the sprayer is operating between 0 and 1.4 MPa (14 bar). A blinking yellow pressure indicator means:

- The sprayer is plugged in and turned "ON"
- The sprayer is at priming pressure (little or no pressure)
- It is safe to move the relief valve between positions
- It is safe to change or replace the spray tip

i	If the pressure indicator begins blinking yellow when the pressure control knob is set at a higher pressure and the relief valve is in the SPRAY position, either the spray tip is worn or the sprayer is in need of service/repair.

Solid Yellow

When the pressure indicator is solid yellow, the sprayer is operating between 1.4 MPa (14 bar) and 12 MPa (120 bar). A solid yellow pressure indicator means:

- The sprayer is at the proper pressure setting for spraying stain, lacquer, varnish, and multi-colors

Solid Green

When the pressure indicator is solid green, the sprayer is operating between 12 MPa (120 bar) and 23 MPa (230 bar). A solid green pressure indicator means:

- The sprayer is at the proper pressure setting for spraying oil-based and latex house paints
- The sprayer is operating at peak performance at a high pressure setting
- If the pressure indicator goes to solid yellow when the pressure is set so that it starts at solid green, it indicates one of the following:
  a. **Tip Wear Indicator** — when spraying with latex or at high pressure the solid yellow appears. This means the tip is worn and needs to be replaced.
  b. **Tip Too Large** — when a tip that is too large for the sprayer is put in the gun, the pressure indicator will turn from solid green to solid yellow.
  c. **Fluid Section Wear** — if a solid yellow pressure indicator appears when using a new tip and the pressure is set at maximum, service may be required (worn packings, worn piston, stuck valve, etc...).

4.3 PRESSURE CONTROL KNOB SETTINGS

1. Minimum pressure setting
2. Black zone – no pressure generation
3. Blue zone – pulsating pressure for cleaning

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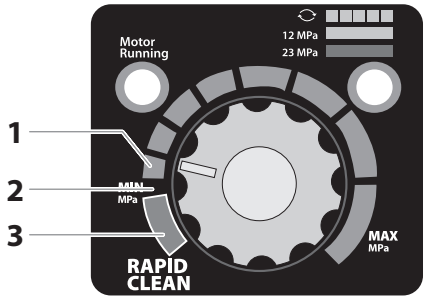


4.4 CONNECTION TO THE MAINS NETWORK

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

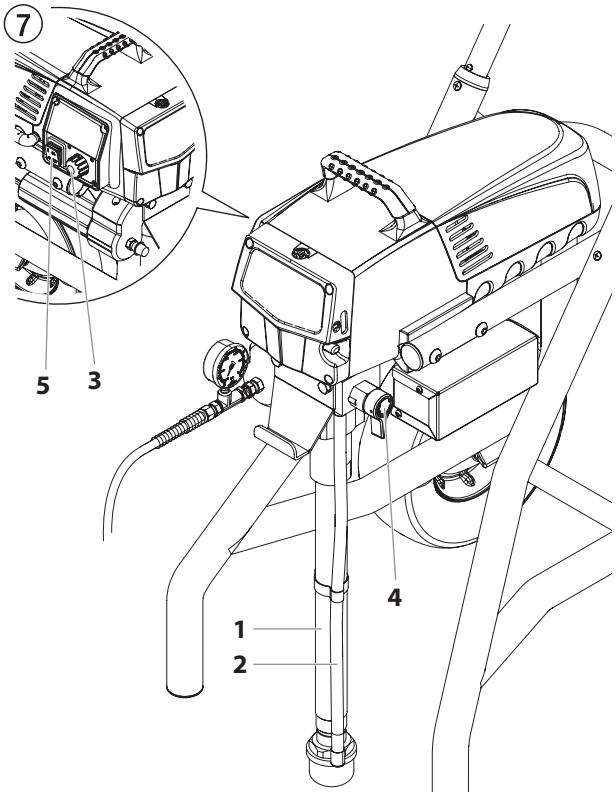
Before connecting the unit to the mains supply, ensure that the line voltage matches that specified on the unit's rating plate.

The connection must be equipped with a residual current protective device with INF ≤ 30 mA.

i	Titan's accessories program also includes a mobile operator protection device for the electronic supply, which can also be used with other electronic equipment.

4.5 CLEANING PRESERVING AGENT WHEN STARTING-UP OF OPERATION INITIALLY

1. Immerse the suction tube (Fig. 7, Item 2) return hose (1) into a container with a suitable cleaning agent.
2. Turn the pressure control knob counterclockwise (3) to minimum pressure.
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.



4.6 TAKING THE UNIT INTO OPERATION WITH COATING MATERIAL

1. Immerse the suction tube (Fig. 7, Item 2) and return hose (1) into the coating material container.
2. Turn the pressure control knob counterclockwise (3) to minimum pressure.
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.

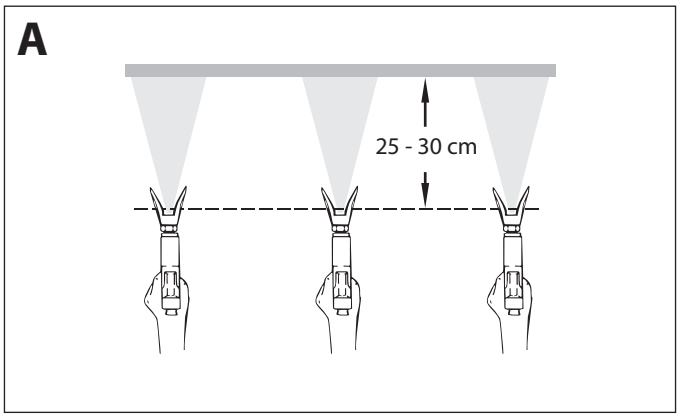
   Check the spray pattern and increase the pressure until the atomization is correct.

   Always turn the pressure control knob to the lowest setting with good atomization.
9. The unit is ready to spray.

5 SPRAYING

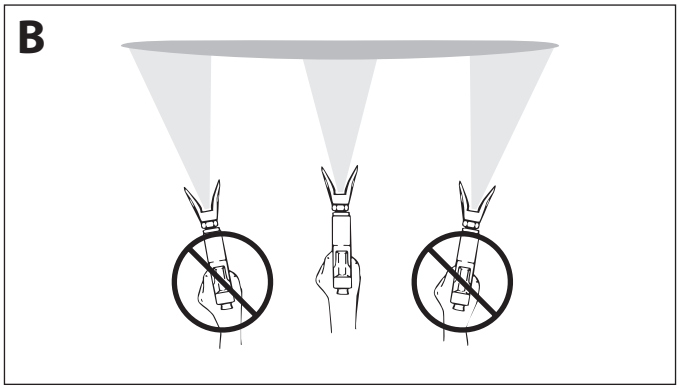
	Injection hazard. Do not spray without the tip guard in place. NEVER trigger the gun unless the tip is completely turned to either the spray or the unclog position. ALWAYS engage the gun trigger lock before removing, replacing or cleaning tip.

A) 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 10-12 inches (25 to 30 cm) between the spray tip and the surface.

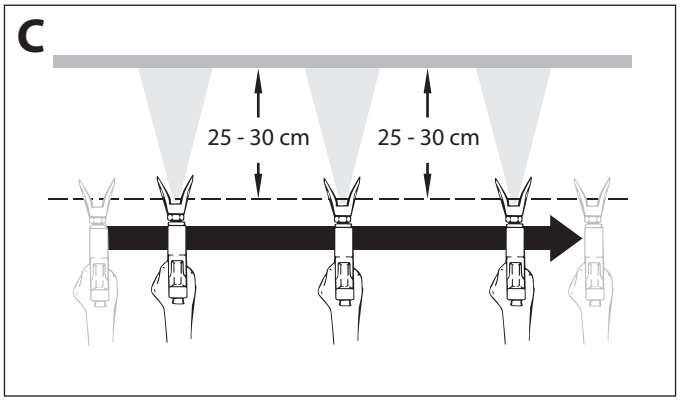


B) Keep the spray gun at right angles to the surface. This means moving your entire arm back and forth rather than just flexing your wrist.

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



C) 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

	The unit is equipped with a high-pressure hose specially suited for piston pumps.
	Danger of injury through leaking high-pressure hose. Replace any damaged high-pressure hose immediately. Never repair defective high-pressure hoses yourself!

The high-pressure hose is to be handled with care. Avoid sharp bends and folds: the smallest bending radius is about 8" (20 cm).

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

Never pull on the high-pressure hose to move the device.

Make sure that the high-pressure hose cannot twist. This can be avoided by using a Titan spray gun with a swivel joint and a hose system.

	When using the high-pressure hose while working on scaffolding, it is best to always guide the hose along the outside of the scaffolding.
	The risk of damage rises with the age of the high-pressure hose. Titan recommends replacing high-pressure hoses after 6 years.
	Use only 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.
3. Turn the pressure control knob counterclockwise to minimum pressure.
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 Section 12.2.

   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)

i	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.
i	The cleaning agent used for cleaning (only with an ignition point above 21 °C) must be suitable for the coating material used.
i	• **Secure the spray gun**, refer to the operating manual of the spray gun. • Clean and remove tip. • For a standard tip, refer to Section 12.2. • 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.

Attention	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)!

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.
5. Immerse suction hose with return hose into a container with a suitable cleaning agent.
6. Turn the pressure control knob counterclockwise to minimum pressure.
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.
Attention	Danger of short circuit through penetrating water! Never spray down the unit with high-pressure or high-pressure steam cleaners. Do not put the high-pressure hose into solvents. Use only a wet cloth to wipe down the outside of the hose.

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

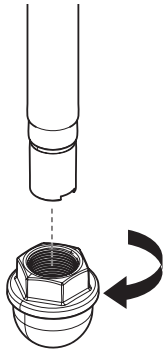
8.2 SUCTION FILTER

i	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. 7) from suction tube.
2. Clean or replace the filter.

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

⑦



8.3 CLEANING THE HIGH-PRESSURE FILTER

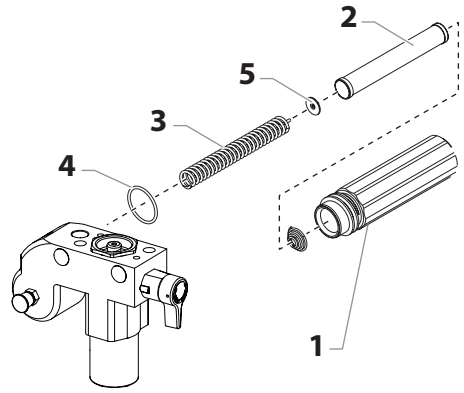
i	Clean the filter cartridge regularly. A soiled or clogged high-pressure filter can cause a poor spray pattern or a clogged tip.

1. Turn the pressure control knob counterclockwise to minimum pressure.
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. 8, Item 1) with a strap wrench.
5. Turning clockwise, unscrew the filter (2) from the pump manifold (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. Turning counterclockwise, screw the new or cleaned filter into the pump manifold.
9. Screw in filter housing (1) and tighten it as far as possible with the strap wrench.

⑧



8.4 CLEANING AIRLESS SPRAY GUN

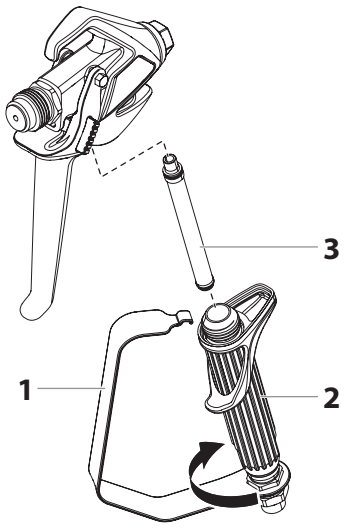
i	Clean the spray gun after each use.

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 (FIG. 9)

1. Unclip the top of the trigger guard (1) from the gun head.
2. Using the bottom of the trigger guard as a wrench, loosen and remove the handle assembly (2) from the gun head.
3. Pull the old filter (3) out of the gun head. Clean or replace.
4. Slide the new filter, tapered end first, into the gun head.
5. Thread the handle assembly into the gun head. Tighten with the trigger wrench.
6. Snap the trigger guard back onto the gun head.

⑨



9 REMEDY IN CASE OF FAULTS

Type of malfunction	Possible cause	Measures for eliminating the malfunction
A. Unit does not start	1. No voltage applied. 2. Pressure setting too low. 3. ON/OFF switch defective.	1. Check voltage supply. 2. Turn up pressure control knob. 3. Replace.
B. Unit does not draw in material	1. Relief valve is set to SPRAY (spray). 2. Filter projects over the fluid level and sucks air. 3. Filter clogged. 4. Suction hose/suction tube is loose, i.e. the unit is sucking in outside air.	1. Set relief valve to PRIME (circulation). 2. Refill the coating material. 3. Clean or replace the filter. 4. Clean connecting points. Replace O-rings if necessary. Secure suction hose with retaining clip.
C. Unit draws in material, but the pressure does not build up	1. Tip heavily worn. 2. Tip too large. 3. Pressure setting too low. 4. Filter clogged. 5. Coating material flows through the return hose when the relief valve is in the SPRAY (spray) position. 6. Packings sticky or worn. 7. Valve balls worn. 8. Valve seats worn.	1. Replace 2. Replace tip. 3. Turn pressure control knob clockwise to increase. 4. Clean or replace the filter. 5. Remove and clean or replace relief valve. 6. Remove and clean or replace packings. 7. Remove and replace valve balls. 8. Remove and replace valve seats.
D. Coating material exits at the top of the fluid section	1. Upper packing is worn. 2. Piston is worn.	1. Remove and replace packing. 2. Remove and replace piston.
E. Increased pulsation at the spray gun	1. Incorrect high-pressure hose type. 2. Tip worn or too large. 3. Pressure too high.	1. Only use TITAN original-high-pressure hoses in order to ensure functionality, safety and durability. 2. Replace tip. 3. Turn pressure control knob to a lower number.
F. Poor spray pattern	1. Tip is too large for the coating material which is to be sprayed. 2. Pressure setting incorrect. 3. Volume too low. 4. Coating material viscosity too high.	1. Replace tip. 2. Turn pressure control knob until a satisfactory spraying pattern is achieved. 3. Clean or replace all filters. 4. Thin out according to the manufacturer's instructions.
G. Unit loses power	1. Pressure setting too low.	1. Turn pressure control knob clockwise to increase.
H. Pump over-pressurizes and will not shut off.	1. Pressure switch defective. 2. Transducer defective.	1. Take unit to a Titan authorized service center. 2. Take unit to a Titan authorized service center.

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.

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

11 REPAIRS AT THE UNIT

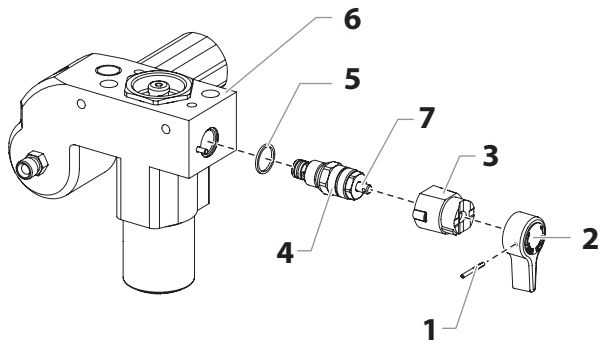
⚠	Switch the unit OFF. Before all repair work: Unplug the power plug from the outlet.
i	Make sure to check for grounding continuity after service is performed on any electrical components. Use an ohmmeter to determine that there is continuity between accessible dead-metal parts of the product and the grounding blade of the attachment plug.

11.1 RELIEF VALVE

⚠ Attention	The valve housing (4) should not be repaired. If worn, it should always be replaced with a new one.

1. Use a drift punch of 2 mm to remove the grooved pin (Fig. 10, 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.

⑩



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. **Unit on high-rider cart:**

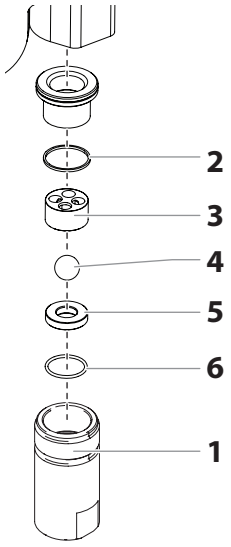
   Screw off the suction tube.

   Unit on stand:

   Remove the retaining clip from the connecting bend at the suction hose and pull off the suction hose.
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. 11, 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.

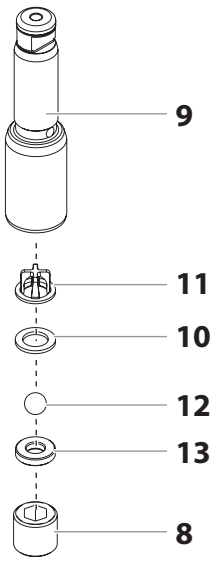
   Check the inlet valve housing (1), inlet valve seat (5) and inlet valve ball (4) for wear and replace the parts if necessary. If the worn inlet valve seat (5) is unused on one side, install it the other way round.

⑪



10. Unscrew outlet valve housing (Fig. 12, Item 8) from the piston (9) with adjusting wrench.
11. Remove the upper ball cage (11), crush washer (10), outlet valve ball (12), and outlet valve seat (13).
12. Clean all the parts with the corresponding cleaning agent. Check outlet valve housing (8), outlet valve seat (13), outlet valve ball (12), crush washer (10), and upper ball cage (11) 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. 11, Item 6) with machine grease and ensure proper seating in the inlet valve housing (Fig. 11, Item 1).

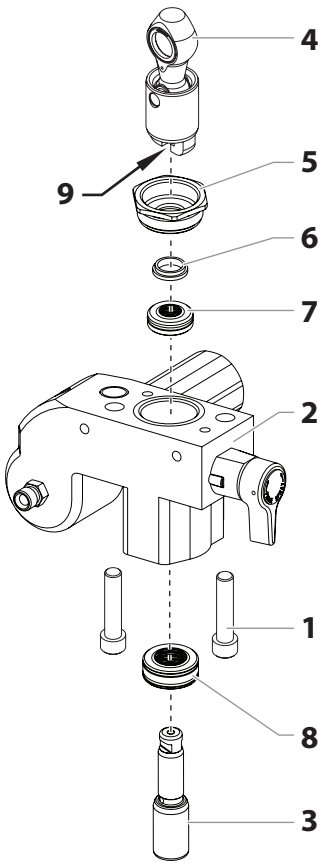
⑫



11.3 PACKINGS

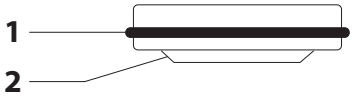
1. Remove inlet valve housing in accordance with the steps in Chapter 11.2.
2. It is not necessary to remove the outlet valve.
3. Unscrew both cylinder head screws (Fig. 13, Item 1) from the pump manifold (2) with a 3/8 inch hexagon socket head wrench.
4. Slide the pump manifold (2) and piston (3) forward until the piston is out of the T-slot (9) on the slider assembly (4).
5. Push piston (3) downward out of the pump manifold (2).
6. Unscrew retainer nut (5) from the pump manifold (2) and remove piston guide (6).
7. Remove upper packing (7) and lower packing (8) from the pump manifold (2).

⑬



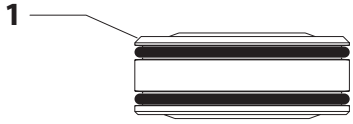
8. Clean pump manifold (2).
9. Lubricate upper packing (7) and lower packing (8) with machine grease.
10. Insert upper packing (Fig. 14) with O-ring (1) and protruding lip (2) downward.

⑭



11. Insert lower packing (Fig. 15) with the beveled edge (1) facing upward.

⑮



12. Insert piston guide (Fig. 13, Item 6) into the retainer nut (5). Screw retainer nut (5) 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 (8) 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).
17. Carefully tighten retainer nut (5) with adjusting wrench.
18. Slide the top of the piston (3) into the T-slot (9) 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.
21. Screw pump manifold (2) tightly to gear unit housing.
22. Lubricate O-ring (Fig. 11, Item 6) between pump manifold (2) and inlet valve housing with machine grease. Screw inlet valve housing to the pump manifold.
23. **Unit on high-rider cart:**

    Thread the siphon tube into the inlet valve and tighten securely. Make sure to wrap the threads on the down tube with PTFE tape before assembly. Replace the return hose into the hose clip on the siphon tube.

    Unit on stand:

    Insert the elbow on the siphon assembly into the bottom of the pusher stem housing. Push the retaining clip up into the groove inside the foot valve housing to secure the siphon assembly in position. Place the return tube over the return tube fitting and secure with the clip.
24. Install front cover.

11.4 REPLACING THE MOTOR

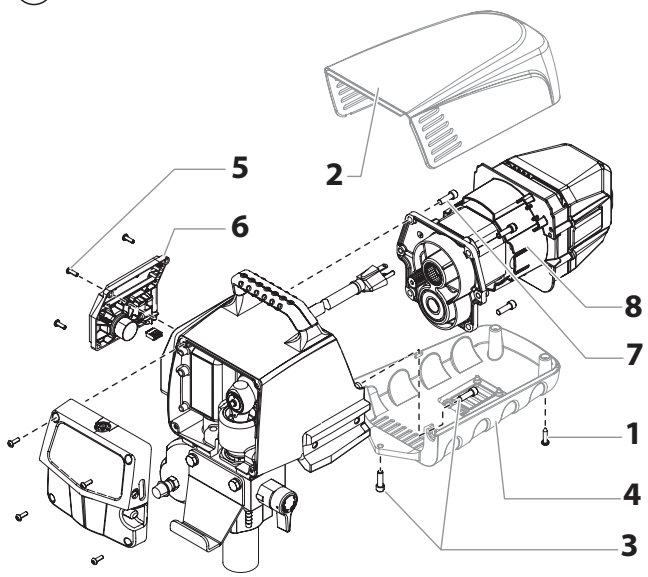
i	The following procedure must only be performed by a Titan Authorized Service Center.

1. Open the relief valve, valve position PRIME (↻ circulation). Switch the unit OFF. Unplug the power plug from the outlet.
2. Loosen and remove the two motor cover screws (fig. 16, item 1). Remove the motor cover (2).
3. Loosen and remove the three belly pan screws (3). Remove the belly pan (4).
4. On the back of the motor, disconnect the wire coming from the potentiometer and the wire coming from the transducer. Also, disconnect the two wires coming from the control panel board (refer to the electrical schematic in the Parts List section of this manual).
5. Remove the four control panel mounting screws (5). Pull back the control panel (6) for access to the control panel board.
6. At the the control panel board, disconnect the two wires coming from the motor (refer to the electrical schematic in the Parts List section of this manual).
7. Loosen and remove the four motor mounting screws (7).
8. Pull the motor (8) out of the pump housing.

i	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.

9. With the motor removed, inspect the gears in the pump housing for damage or excessive wear. Replace the gears, if necessary.
10. Install the new motor (8) into the pump housing.
11. Secure the motor with the four motor mounting screws (7).
12. Reconnect the wires (refer to the electrical schematic in the Parts List section of this manual).
13. Position the control panel (6) on the pump housing and secure in position using the four control panel mounting screws (5).
14. Replace the belly pan (4). Secure with the three belly pan screws (3).
15. Slide the motor cover (2) over the motor. Secure the motor cover with the two motor cover screws (1).

⑯



11.5 REPLACING THE GEARS

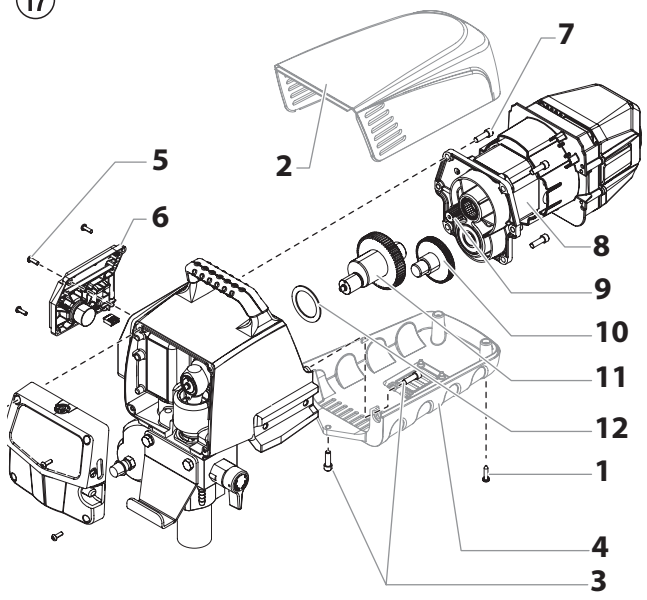
i	The following procedure must only be performed by a Titan Authorized Service Center.

1. Open the relief valve, valve position PRIME (↻ circulation). Switch the unit OFF. Unplug the power plug from the outlet.
2. Loosen and remove the two motor cover screws (fig. 17, item 1). Remove the motor cover (2).
3. Loosen and remove the three belly pan screws (3). Remove the belly pan (4).
4. On the back of the motor, disconnect the wire coming from the potentiometer and the wire coming from the transducer. Also, disconnect the two wires coming from the control panel board (refer to the electrical schematic in the Parts List section of this manual).
5. Remove the four control panel mounting screws (5). Pull back the control panel (6) for access to the control panel board.
6. At the the control panel board, disconnect the two wires coming from the motor (refer to the electrical schematic in the Parts List section of this manual).
7. Loosen and remove the four motor mounting screws (7).
8. Pull the motor (8) out of the pump housing.

i	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.

9. Inspect the armature gear (9) on the end of the motor for damage or excessive wear. If this gear is completely worn out, replace the entire motor.
10. Remove and inspect the 2nd stage gear (10) for damage or excessive wear. Replace if necessary.
11. Remove and inspect the gear and crank assembly (11) for damage or excessive wear. Replace if necessary.
12. Reassemble the pump by reversing the above steps. During reassembly, make sure the thrust washer (12) is in place.

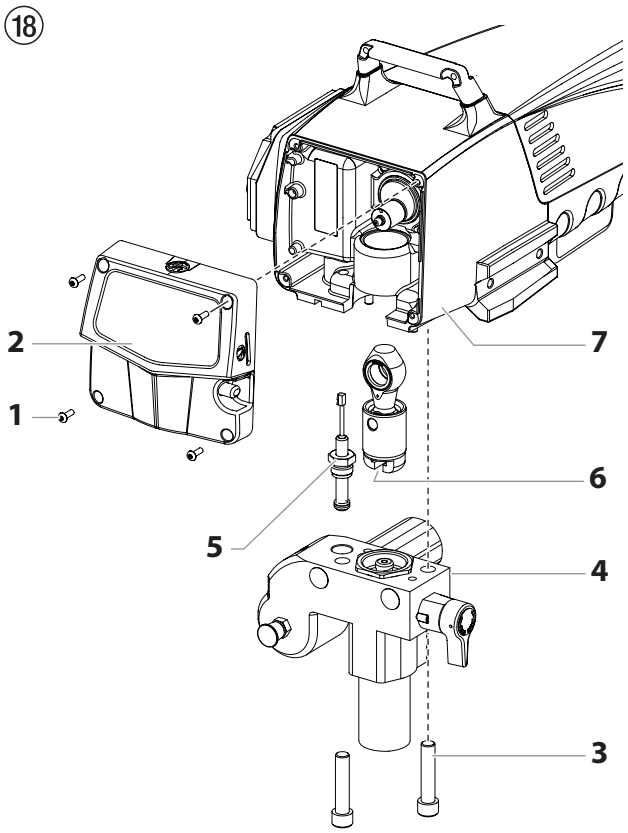
⑰



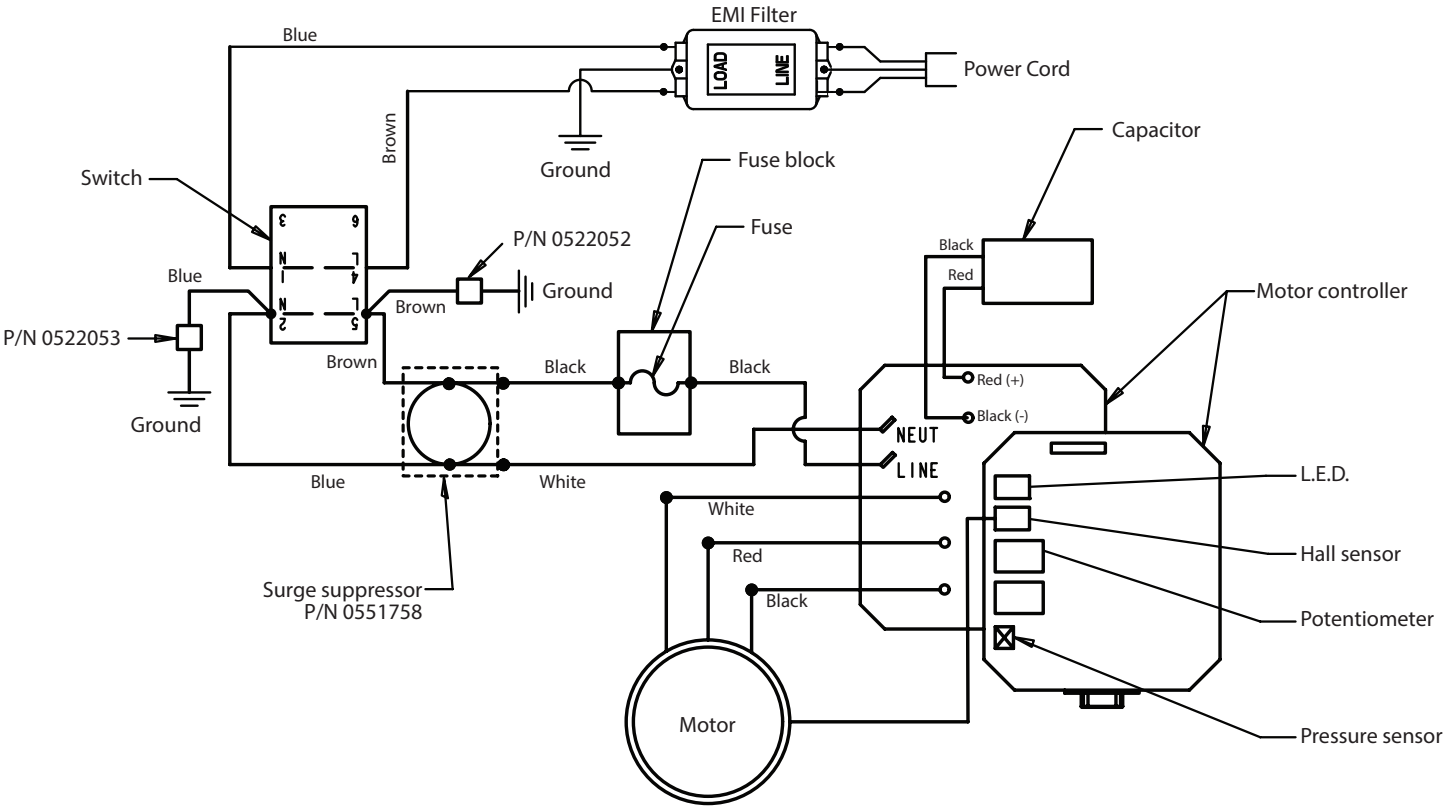
11.6 REPLACING THE TRANSDUCER

i	The following procedure must only be performed by a Titan Authorized Service Center.

1. Loosen and remove the four front cover screws (1). Remove the front cover (2).
2. Stop the sprayer at the bottom of its stroke so that the piston is in its lowest position.
3. Open the relief valve, valve position PRIME (↻ circulation). Switch the unit OFF. Unplug the power plug from the outlet.
4. Tilt the pump back for easy access to the fluid section.
5. Using a 3/8" hex wrench, loosen and remove the two pump block mounting screws (3).
6. Pull the pump block (4) down approximately 1/2" from the pump housing to clear the transducer (5).
7. Slide the pump block (4) and piston rod forward until the piston rod is out of the T-slot (6) on the slider assembly.
8. Carefully pull the transducer wire out of the pump housing (7) until the connection to the transducer jumper is exposed. Unplug the wire from the transducer jumper (refer to the electrical schematic in the Parts List section of this manual).
9. Using a wrench, remove the transducer assembly (5) from the pump block (4).
10. Thread the new transducer assembly into the pump block. Tighten securely with a wrench.
11. Plug the new transducer wire into the transducer jumper (refer to the electrical schematic in the Parts List section of this manual).
12. Reassemble the pump by reversing steps 1–7.



11.7 IMPACT 540 CONNECTION DIAGRAM



12 APPENDIX

12.1 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 to 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.

12.2 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. Remove the tip from the spray gun.
3. Place tip in an appropriate cleaning agent until all coating material residue is dissolved.
4. If there is high-pressure air available, blow out tip.
5. Remove any residue by means of a sharp wooden rod (toothpick).
6. Check the tip with the help of a magnifying glass and, if necessary, repeat points 3 to 5.

TESTING OF THE UNIT

For safety reasons, we would recommend having the device checked by an expert as required but at least every 12 months to ensure that it can continue to operate safely.
In the case of unused devices, the check can be postponed until they are next started up.
All (potentially deviating) national inspection and maintenance regulations must also be observed.
If you have any questions, please contact the customer service team at Titan.

IMPORTANT INFORMATION ON PRODUCT LIABILITY

According to an EU directive, the manufacturer is only liable without limitation for faults in the product if all parts come from the manufacturer or have been approved by the manufacturer and have been mounted to the device and are operated properly. If third-party accessories or spare parts are used, the manufacturer is exonerated wholly or partly from his/her liability if use of the third-party accessories or spare parts have caused a defect in the product. In extreme cases, the relevant authorities can completely prohibit using the entire device.

With original Titan accessories and spare parts, compliance with all safety regulations is guaranteed.

NOTE ON DISPOSAL

In observance of the European Directive 2012/19/EU 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.

3 + 2 YEAR GUARANTEE ON THIS TITAN PRODUCT

(Status 03.03.2022)

TITAN exclusively provides the commercial buyer who has purchased the product from an authorised specialist dealer (hereinafter referred to as the „Customer") with a guarantee for the products listed on the Internet at https://go.titantool-international.com/warranty in addition to the statutory warranty regulations, unless there is a guarantee exclusion.
The warranty period for TITAN products (devices) is 36 months and begins with the date of purchase of the initial purchase. This guarantee period is extended by a further 24 months if the product is registered within 28 days of purchase on the Internet at https://go.titantool-international.com/registration.
In cases of commercial rental, industrial use (e.g. use in shift operation) or equivalent use, the guarantee period is 12 months due to the significantly higher load. We reserve the right to carry out a check in individual cases and refuse the guarantee where necessary.
If any material, machining or performance defects are identified in the device within the guarantee period, then the guarantee claims must be made immediately and within a period of no more than 2 weeks following discovery of the defect.
The detailed guarantee conditions can be obtained on request from our authorised TITAN partners (see website or operating instructions) or in text form on our website:

https://go.titantool-international.com/warranty-conditions

Subject to modifications

EU Declaration of conformity

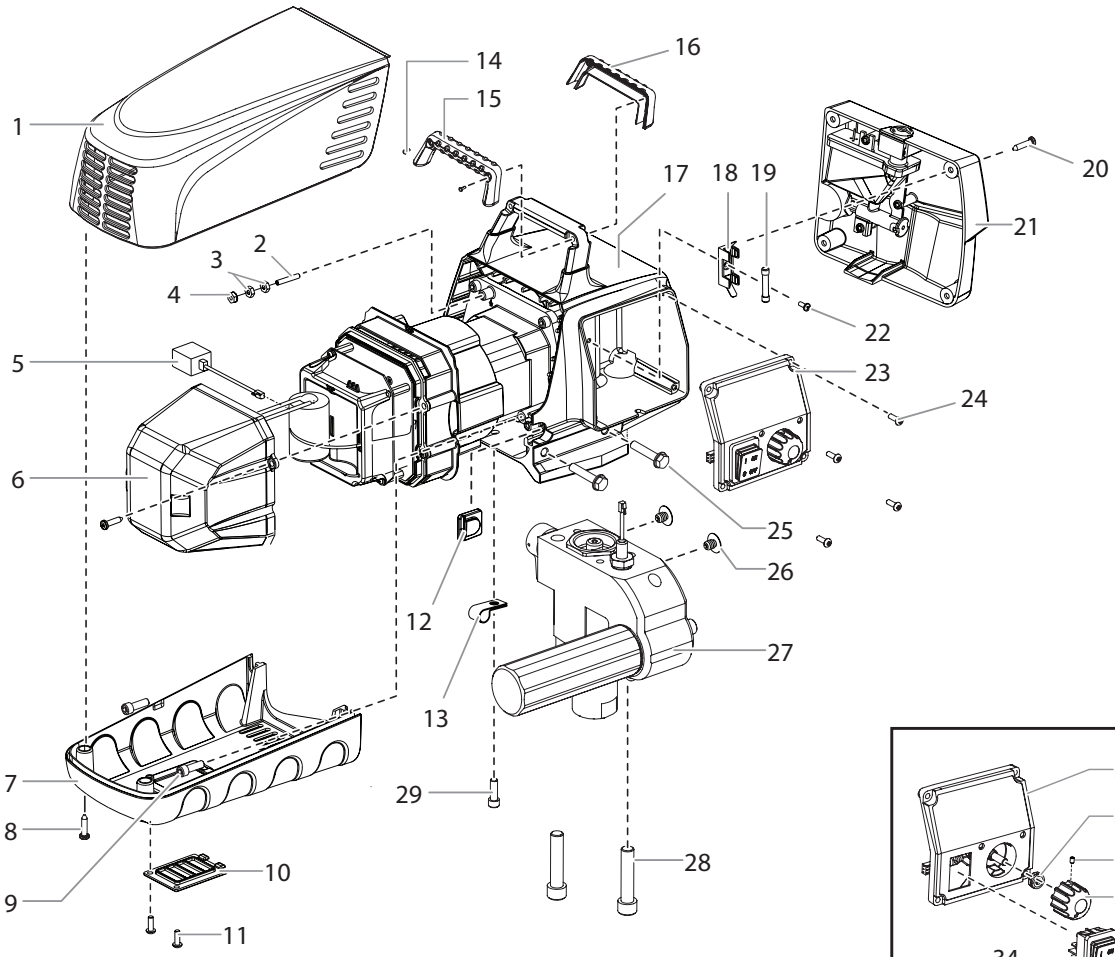
We declare under sole responsibility that this product conforms to the following relevant stipulations:

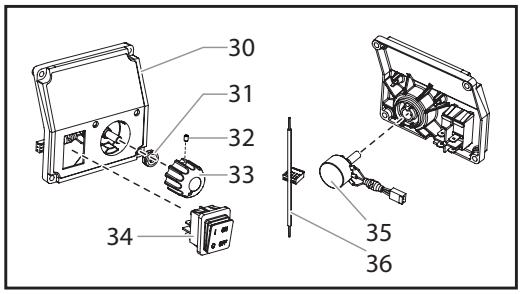
2006/42/EC, 2014/30/EU, 2011/65/EU, 2012/19/EU

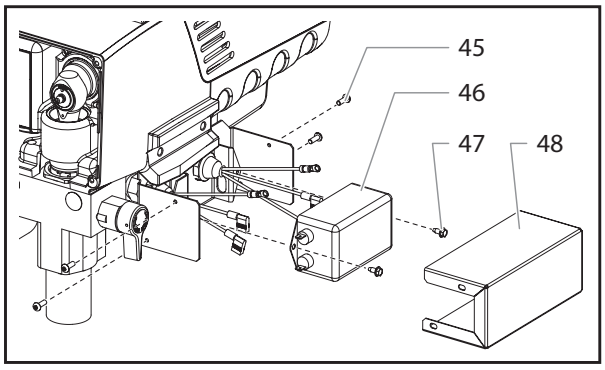
Applied harmonised norms:
EN 62841-1, EN 1953, EN IEC 55014-1, EN IEC 55014-2, EN IEC 61000-3-2, EN 61000-3-3

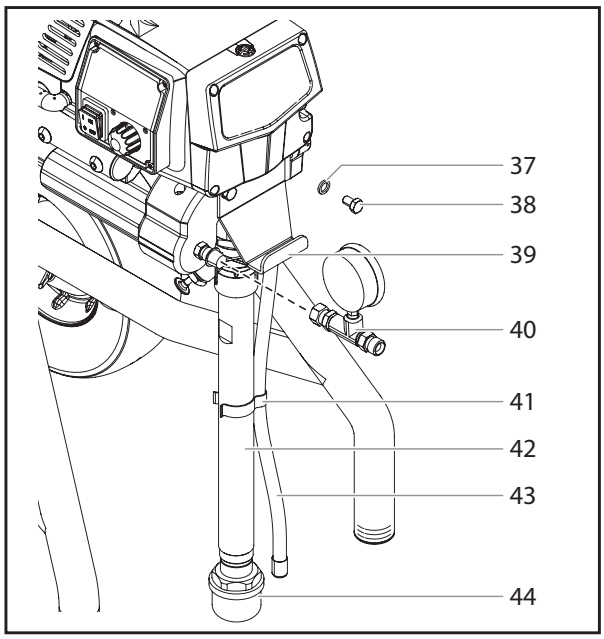
The EU declaration of conformity is enclosed with the product. If required, it can be re-ordered using order number **2392842**.

EN **MAIN ASSEMBLY**



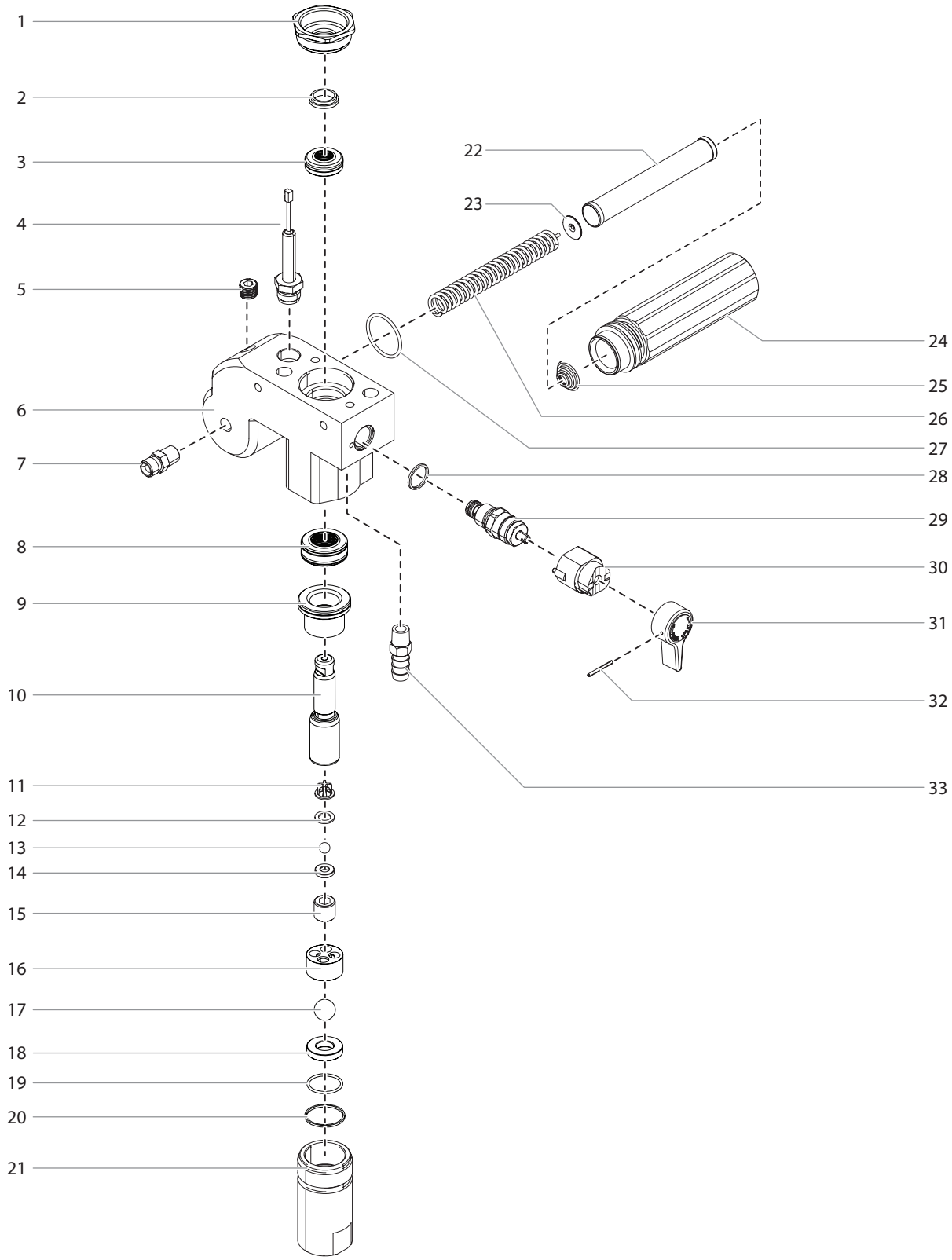






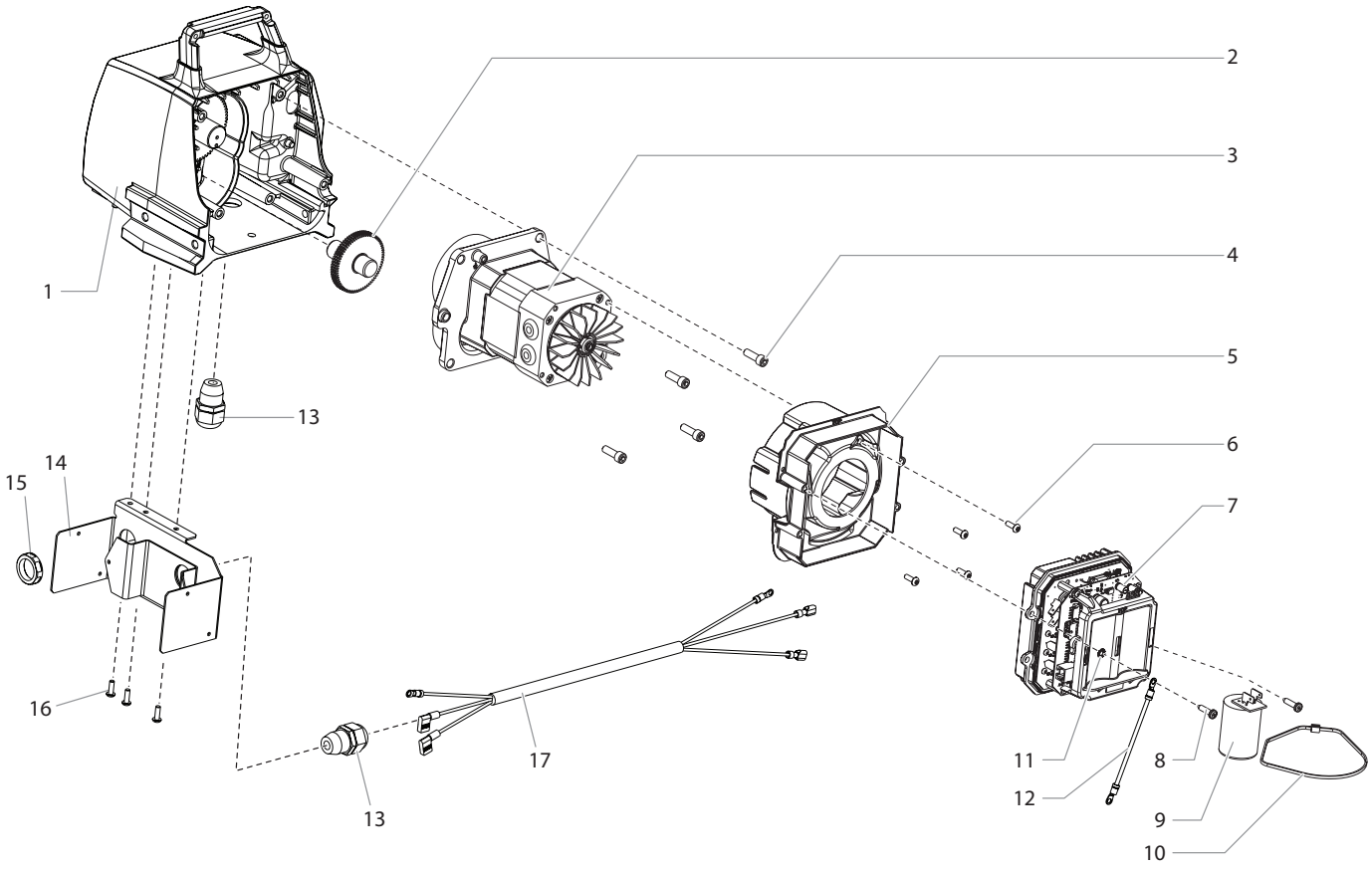
#	0532031	0532039	Description		
1	805-356A	805-356A	Motor shroud		
2	9805 403	9805 403	Set screw		
3	9810 103	9810 103	Nut (2)		
4	0524 353	0524 353	Nut		
5	704-548	704-548	Transducer jumper		
6	0290 225	0290 225	Electronic cover		
7	805-489	805-489	Belly pan		
8	9802 266	9802 266	Screw (2)		
9	0508 559	0508 559	Screw (2)		
10	0290 228	0290 228	Door		
11	0509 218	0509 218	Screw (2)		
12	0558 460	0558 460	Plug		
13	-------	-------	Strap		
14	9805 317	9805 317	Screw (2)		
15	0290 212	0290 212	Handle cover, back		
16	0290 213	0290 213	Handle cover, front		
17	-------	-------	Drive assembly		
18	0522 210	0522 210	Mounting plate		
19	9852 344	9852 344	Fuse, 8A		
20	0509 218	0509 218	Screw (4)		
21	0290 278	0290 278	Face plate / oiler assembly		
22	9804 916	9804 916	Screw		
23	0532 287A	0532 287A	Control panel assembly, complete (includes items 30-36)		
24	0509 218	0509 218	Screw (4)		
25	9805 348	9805 348	Screw (4)		
26	0509 636	0509 636	Plug (2)		
27	0532 280A	0552 614A	Fluid section assembly		
28	0508 553	0508 553	Screw (2)		
29	0508 559	0508 559	Screw		
30	0532 969	0532 969	Control panel cover with label		
31	0507 749	0507 749	Nut with seal		
32	0290 202	0290 202	Set screw		
33	0290 218	0290 218	Knob		
34	9850 936	9850 936	Switch		
35	0508 579	0508 579	Potentiometer		
36	0522 007	0522 007	LED assembly		
37	0508 549	------	Washer (2)		
38	0508 550	------	Screw (2)		
39	0508 551	------	Pail hook		
40	0508 239	0508 239	Manometer		
41	0507 783	------	Clip		
42	0290 224	------	Suction tube		
43	0508 293	------	Retun tube		
44	5006 536	------	Inlet screen		
45	0509 218	0509 218	Screw (4)		
46	0522 424	0522 424	EMI filter, 20A		
47	9800 340	9800 340	Ground screw (2)		
48	0558 452	0558 452	Bracket cover		
49	------	0558 672	Suction system for stand		
	0551 758	0551 758	Surge protector (not shown)		
	0522 052	0522 052	Wire assembly (not shown)		
	0522 053	0522 053	Wire assembly (not shown)		

EN FLUID SECTION



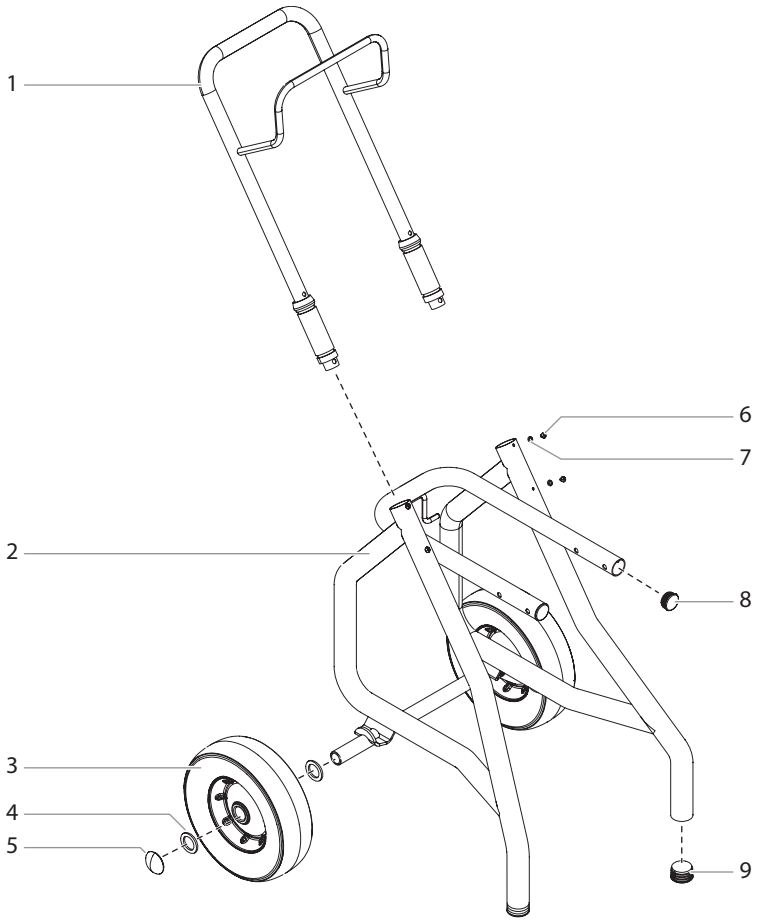
#	0532031	0532039	Description		
1	0509 594	0509 594	Retainer		
2	0509 584	0509 584	Piston guide		
3	-------	-------	Upper packing		
4	704-492A	704-492A	Transducer assembly		
5	0507 517	0507 517	Pipe plug		
6	0290 209	0290 209	Pump manifold		
7	0509 873	0509 873	Fitting		
8	-------	-------	Lower packing		
9	0552 489	0552 489	Bushing		
10	0290 277	0290 277	Piston rod		
11	0551 262	0551 262	Upper cage		
12	0551 263	0551 263	Crush washer		
13	50164	50164	Outlet valve ball		
14	0551 620	0551 620	Outlet valve seat		
15	13481	13481	Outlet valve retainer		
16	0509 591	0509 591	Lower ball guide		
17	0509 583	0509 583	Inlet valve ball		
18	0551 534	0551 534	Inlet valve seat		
19	0509 582	0509 582	O-ring, PTFE		
20	0509 581	0509 581	Inlet valve seal		
21	0508 690	0508 680	Inlet valve housing		
22	0508 748	0508 748	Filter		
23	0508 603	0508 603	Bearing ring		
24	0508 601	0508 601	Filter housing		
25	0508 602	0508 602	Conical spring		
26	0508 749	0508 749	Bearing spring		
27	0508 604	0508 604	O-ring		
28	0507 745	0507 745	Gasket		
29	0558 727	0558 727	Bypass valve assembly (includes item 28)		
30	0507 931	0507 931	Cam base		
31	0508 744	0508 744	Relief valve knob		
32	5006 543	5006 543	Groove pin		
33	193-200	193-200	Return tube fitting		
	704-552A	704-552A	Piston assembly (includes items 10-15)		
	704-586	704-586	Repacking kit - 1 (includes items 2-3, 8, 11-13, 17 and 19-20).		
	700-258	700-258	Relief valve w/ handle (includes items 28 – 32)		

EN DRIVE ASSEMBLY



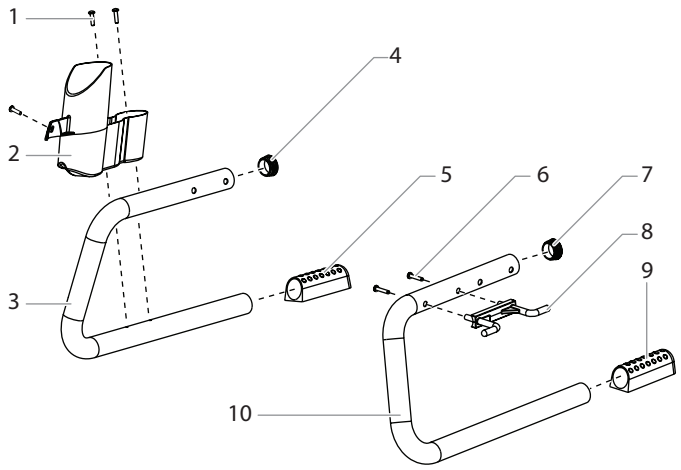
#	Impact 540	Description		
1	0532 294A	Housing assembly		
2	0509 121	2nd stage gear		
3	0558 300A	Motor assembly		
4	0508 559	Screw (4)		
5	0290 226	Baffle assembly		
6	0509 218	Screw (2)		
7	0532 985	Electronic control assembly		
8	9802 266	Screw		
9	0522 036	Capacitor assembly		
10	0551 543	Tie wrap		
11	9822 106	Washer		
12	0522 040	Wire assembly		
13	0551 714	Cord grip (2)		
14	0558 449	Bracket		
15	0551 980	Lock nut		
16	0509 218	Screw (3)		
17	0558 476	Power cord jumper		

EN UPRIGHT CART ASSEMBLY



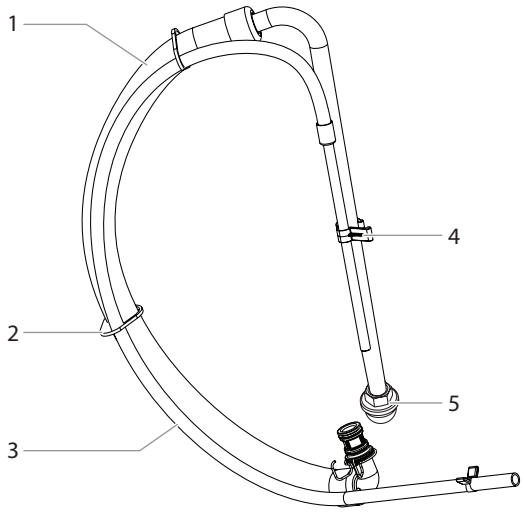
#	0532031	Description		
1	805-279A	Handle assembly (includes items 6-7)		
2	805-281	Cart weldment		
3	0278 373	Wheel (2)		
4	0294 635	Spacer (4)		
5	9890 104	Axle cap (2)		
6	856-921	Screw (2)		
7	856-002	Washer (4)		
8	0294 635	Plug (2)		
9	9885 571	Plug (2)		

EN STAND



#	0532039	Description		
1	9805 367	Screw (3)		
2	0290 215	Drip cup		
3	0290 211	Leg, right		
4	0294 635	Plug		
5	0290 214	Foot		
6	0508 660	Screw (2)		
7	0294 635	Plug		
8	0290 219	Cord holder		
9	0290 214	Foot		
10	0290 210	Leg, left		
	0290 203	Left leg assembly (includes items 6-10)		
	0290 204	Right leg assembly (includes items 1-5)		

EN SUCTION SYSTEM FOR STAND



#	**0532039**	Description		
1	0551 706	Siphon hose		
2	9850 638	Tie wrap (2)		
3	0558 659A	Return tube		
4	0279 459	Clip		
5	0295 565	Inlet screen		
	0558 672	Siphon tube assembly (includes items 1-5)		

EN ACCESSORIES

PART NO.	DESCRIPTION		
SPRAY GUNS			
0538005	RX-80 with TR-1 517 Tip		
0538020	RX-Pro with TR-1 517 Tip		
0550060	S-3 spray gun		
0550070	S-5 spray gun		
0289013	M-4 spray gun		
0538217	RX-Pro, small grip		
0538218	RX-Pro, medium grip		
0538219	RX-Pro, large grip		
MULTI-SPRAY GUN MANIFOLDS			
975-212	2-Gun Manifold with Ball Valves, 1/4"		
975-213	3-Gun Manifold with Ball Valves, 1/4"		
975-312	2-Gun Manifold with Ball Valves, 3/8"		
975-313	3-Gun Manifold with Ball Valves, 3/8"		
SPRAY TIPS AND ACCESSORIES			
662-XXX	SC-6+ Tip*		
695-XXX	TR-1 Tip*		
692-XXX	TR-2 Tip*		
671-XXX	Fine Finish Tip*		
0289228	No Build Tip Guard		
651-139	Tip Swivel		
661-020	Tip seat and seal kit (5 pack)		
FILTERS			
0089957	Coarse Mesh Filter (Green)		
0089958	Medium Mesh Filter (White)		
0089959	Fine Mesh Filter (Yellow)		
0089960	Extra Fine Mesh Filter (Red)		
930-004	Paint Filter Element, 0 Mesh (for mastics)		
930-005	Paint Filter Element, 5 Mesh (for multicolors and heavy materials)		
930-006	Paint Filter Element, 50 Mesh (for latex and normal architectural materials)		
930-007	Paint Filter Elements, 100 Mesh (for stains, lacquers and fine materials)		

PART NO.	DESCRIPTION		
EXTENSIONS			
651-070	6" Tip Extension		
651-071	12" Tip Extension		
651-072	18" Tip Extension		
651-073	24" Tip Extension		
310-390	3' Extension Pole		
310-391	6' Extension Pole		
AIRLESS HOSE AND ACCESSORIES			
316-505	1/4" x 50' Airless Hose		
0291006	3/8" x 50' Airless Hose		
316-506	3/16" x 5' Whip Hose		
490-012	1/4" x 1/4" hose connector		
0508239	High Pressure Fluid Gauge		
310-150	9" Pressure Roller Kit		
0521012	Non-Spit Valve		
LUBRICANTS AND CLEANERS			
314-482	Liquid Shield™ 1 Quart		
314-480	Piston Lube™, 8 oz		
700-926	Piston Lube™, 1 Quart		
0297055	Pump Shield™, 12 oz.		
0508071	Paint Mate 1 Quart		
*	Go to www.titantool.com for tip sizes		

Impact 540

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