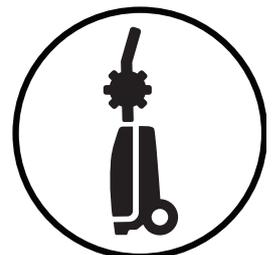


Workshop manual
PW 125



English

PW 125

Contents

1 Introduction and safety regulations	3
1.1 General	3
1.2 Revisions.....	3
1.3 Target group	3
1.4 Safety instructions.....	3
1.4.1 General safety instructions	3
1.4.2 Special safety instructions	3
2 Repair instructions	4
2.1 Product overview, Cabinet	4
2.2 Product overview, Pump unit.....	5
2.3 Assembly.....	6
2.3.1 To assemble cabinet rear part	7
2.3.2 To assemble the switch box.....	7
2.4 To disassemble the cabinet rear part	8
2.5 To disassemble/assemble the switch box and cover	9
2.6 To disassemble/assemble the start/stop valve	9
2.7 To disassemble/assemble the water/oil seal and valves.....	10
3 Specifications	12
3.1 Technical data	12
4 Appendices and schemas	13
4.1 Operating supplies	13
4.1.1 Recommended oil types	13
4.1.2 Recommended lubrication.....	13
4.1.3 Special tools	13
4.2 Start stop System guide.....	14
4.2.1 No pressure in system	14
4.2.2 Start up-pressure build up	14
4.2.3 Pressure build up-opening pressure/close gun ..	15
4.2.4 Motor stop – Standby pressure.....	15
4.2.5 Gun is activated.....	15
4.2.6 Machine run	16
4.3 Wiring diagram.....	17

1 Introduction and safety regulations

1.1 General

This workshop manual gives a full description of how to do troubleshooting, repair and test of the high pressure washer. It also gives safety instructions that the personnel must obey during repair work.

1.2 Revisions

If there are changes to the product, these are gradually introduced into ongoing production. These changes can have an effect on servicing and/or spare parts. This can cause sections of the workshop manual to become out of date. Servicing information is sent out for each change. To make sure that the repair and servicing instructions are complete and up to date, always read the workshop manual together with all servicing information applicable for the high pressure washer.

1.3 Target group

This workshop manual is written for personnel with a general knowledge of how to repair and do servicing on high pressure washers.

All personnel that repair or do servicing on the high pressure washer must read and understand the workshop manual.

1.4 Safety instructions



WARNING: All personnel that repair or do servicing on the high pressure washer must read and understand the safety instructions.

1.4.1 General safety instructions

The service center that repairs the high pressure washer must have safety devices that comply with local regulations.

Warnings and cautions and notes are used to point out specially important parts of the workshop manual.



WARNING: Used if there is a risk of injury or death if the instructions are not followed.



CAUTION: Used if there is a risk of material damage if the instructions are not followed.

Note: This information makes the product easier to use.

1.4.2 Special safety instructions



WARNING: Do not use accessories and/or do changes that are not approved by the manufacturer. This can cause injury or death to the operator or other persons.



WARNING: Always use original spare parts and accessories.



WARNING: Disconnect from electrical power supply before carrying out user maintenance.



WARNING: High pressure jets can be dangerous. Never direct the water jet at persons, pets, live electrical equipment or the machine.



WARNING: The operator and anyone in the immediate vicinity of the site of cleaning should take action to protect themselves from being struck by debris dislodged during operation. Wear goggles during operation.



WARNING: Never try to clean clothes or footwear on yourself or other persons.



WARNING: Do not let children or people who have not read the instruction manual operate the machine.



WARNING: Never use the machine in an environment where there could be a danger of explosion. If any doubt arises, contact the local authorities.



WARNING: It is not allowed to clean asbestos-containing surfaces with high pressure.

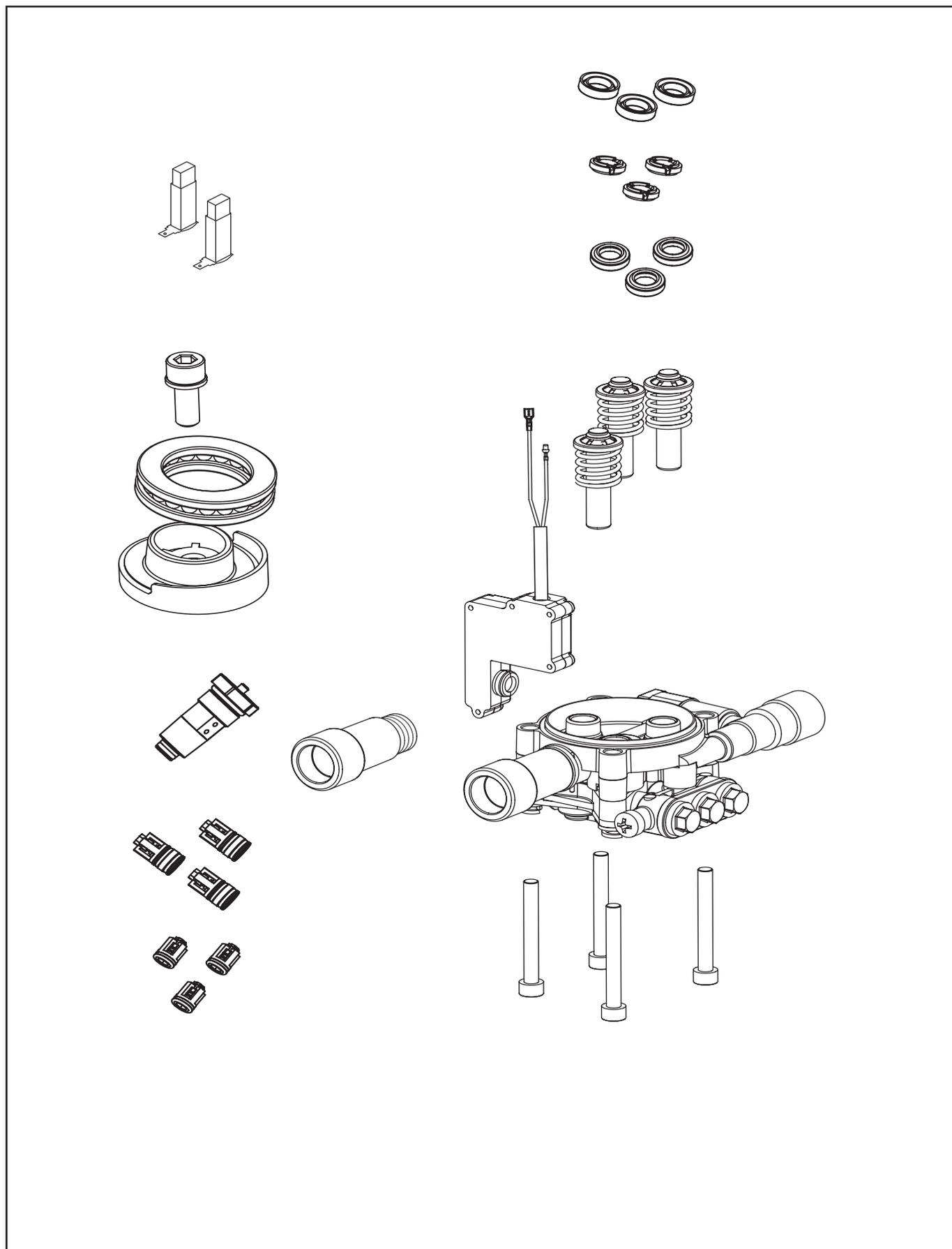


WARNING: This high pressure washer must not be used at temperatures below 0°C.



WARNING: Never let any persons stay under the product when stored on the wall.

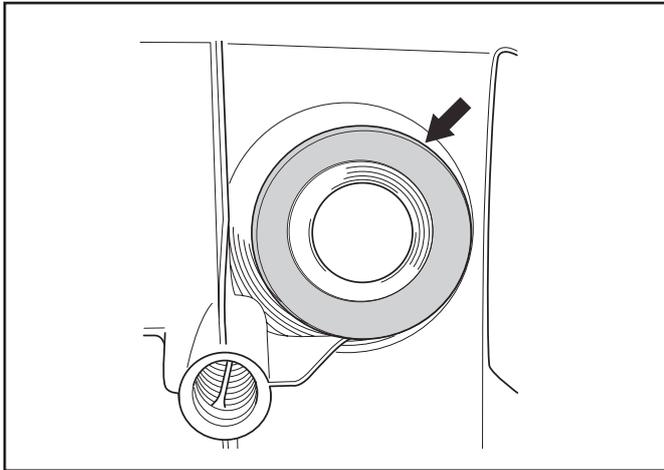
2.2 Product overview, Pump unit



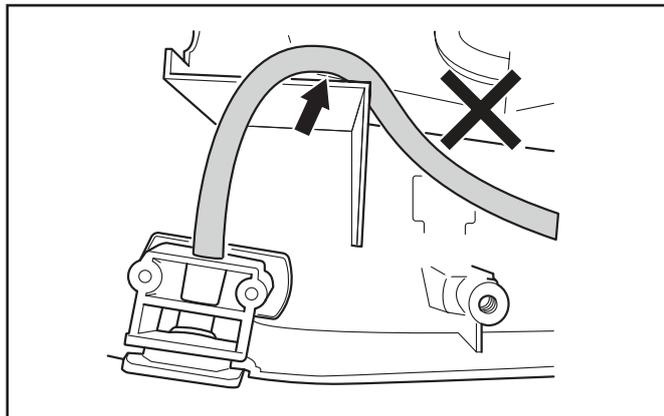
2.3 Assembly



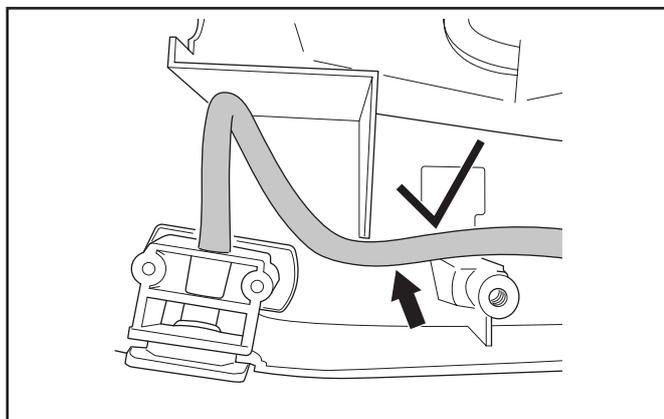
CAUTION: Make sure that the gasket for the water inlet is installed correctly inside the front part before mounting the motor pump unit in the front part.



CAUTION: Make sure that the power cable is not placed on the internal ribs before assembly.

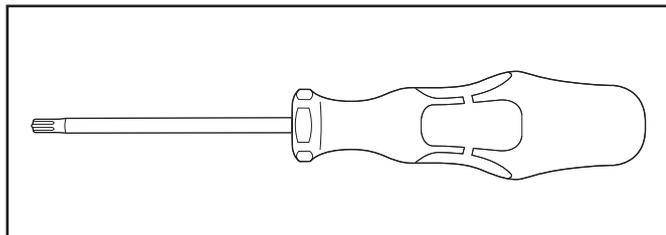


CAUTION: Make sure that the cable relief is mounted correctly before assembly.



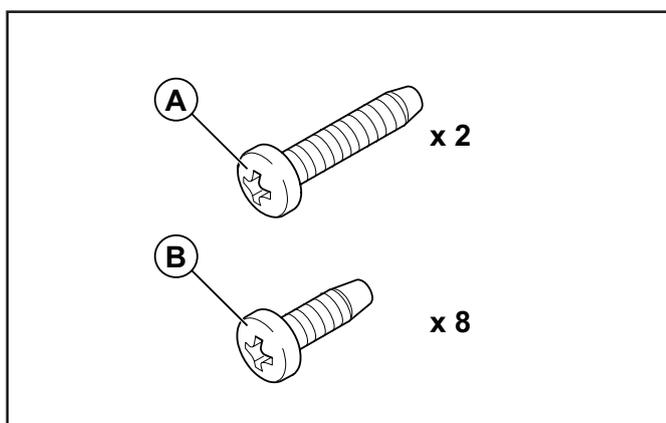
2.3.1 To assemble cabinet rear part

1. Tools: Screwdriver PH2.

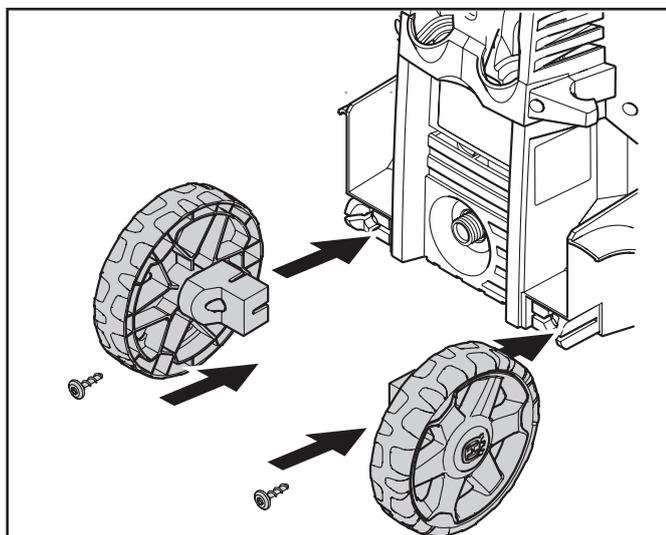


2. Note that screws has different lengths:

- Short type 8 pcs (B)
- Long type 2 pcs (A) for the handle.

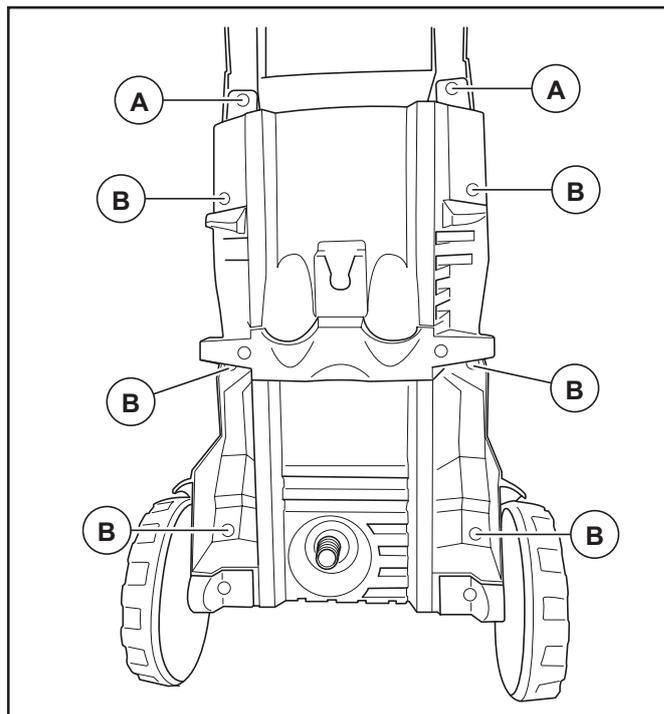


3. Install 2 short screws (B) behind the wheels.



4. Make sure that the wheels are assembled correctly by sliding the parts together.

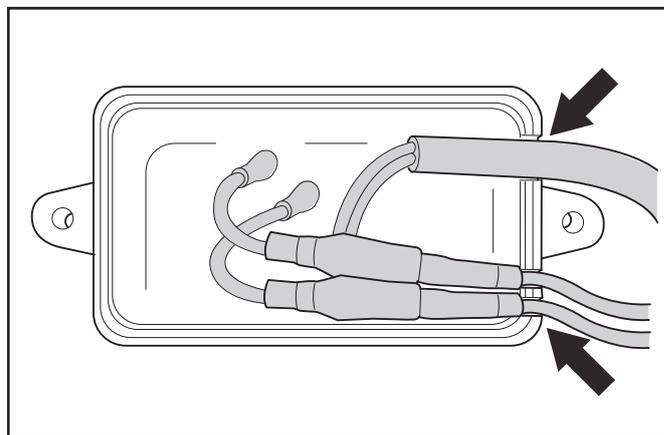
5. Install the wheels and 6 short screws (B) on the rear side.



6. Install the handle and the 2 long screws (A) to fix the handle.

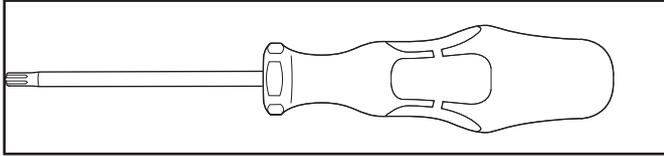
2.3.2 To assemble the switch box

1. Make sure that the cable and the 2 wires are mounted in the groves.



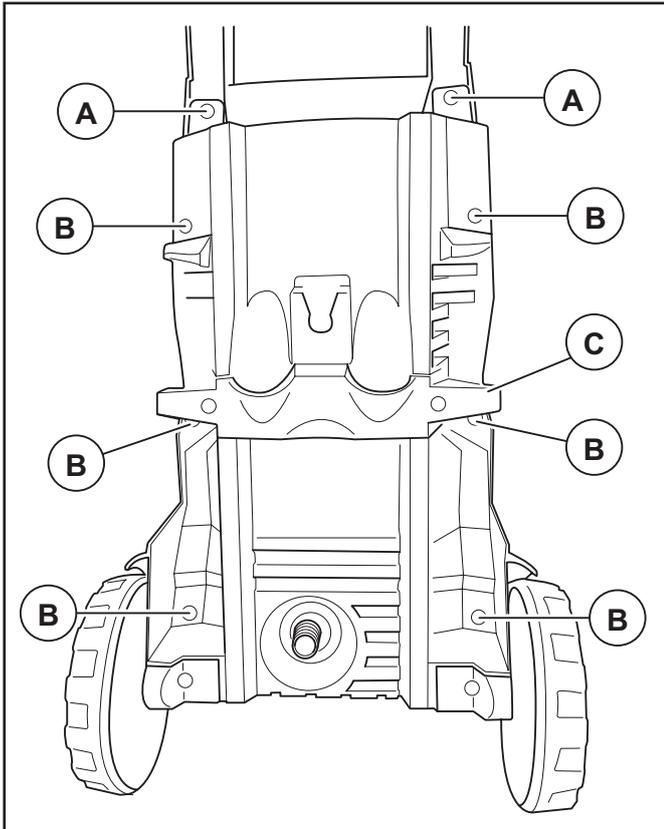
2.4 To disassemble the cabinet rear part

1. Tools: Screwdriver PH2.

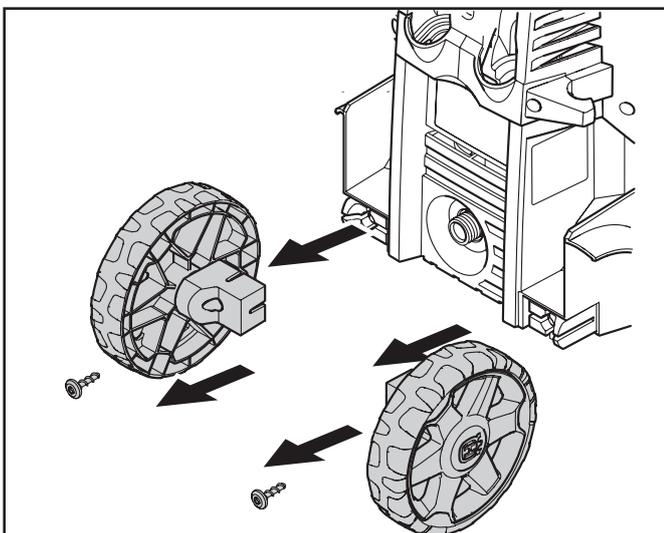


2. Remove the 2 long screws (A) that fix the handle.

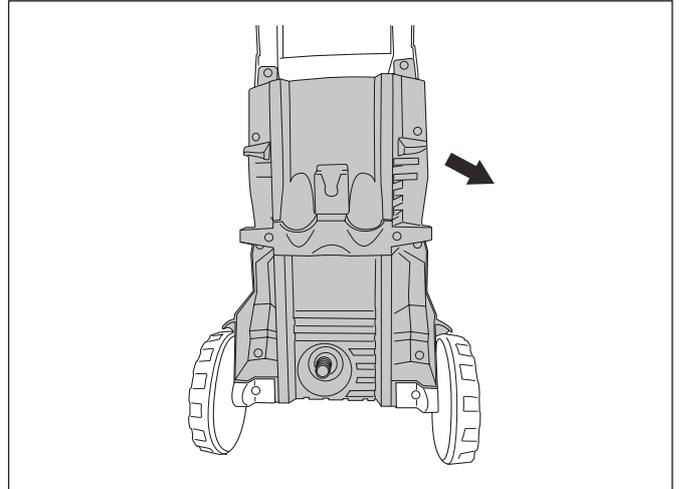
3. Remove the 6 short screws (B) from the rear side. Do not remove the accessory bracket (C).



4. Remove the wheels and remove the 2 short screws (B) behind the wheels.

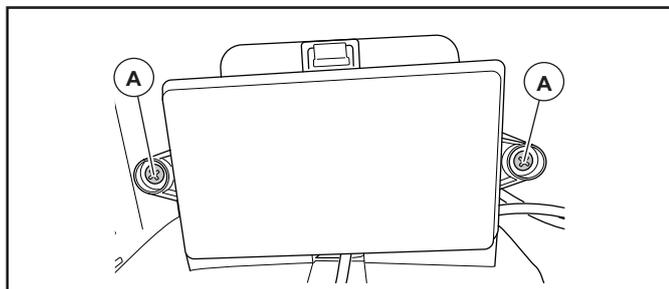


5. The cabinet rear part can now be removed. It allows access to the pump unit.

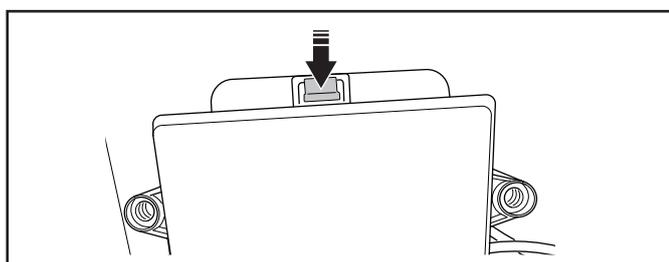


2.5 To disassemble/assemble the switch box and cover

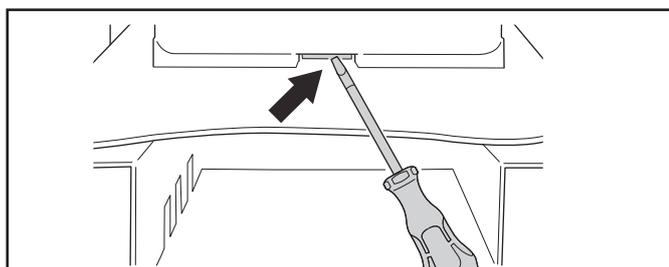
1. Remove the 2 screws (A).



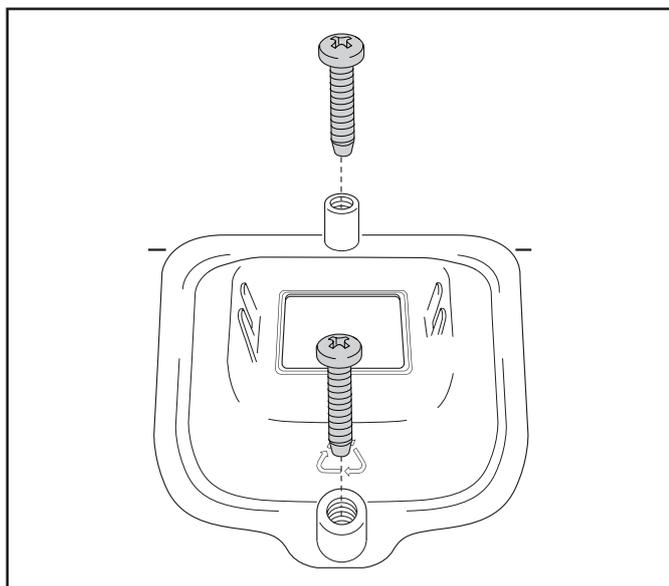
2. Release the snap on the switch box to remove the switch box cover.



3. Release the hook on the switch box from the snap on the switch box cover. Use a small screw driver. Remove the switch box cover.



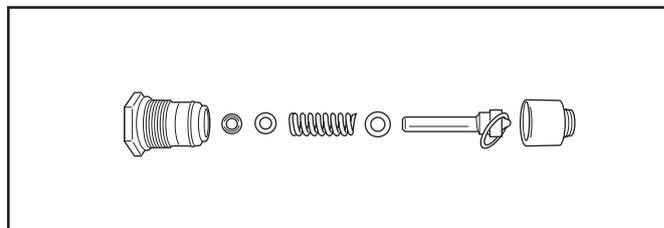
4. Assembly: Make sure that the cover/gasket on the on/off switch is correctly installed in the hole of the front part. Make sure that the taps on the switchbox are fixed in the slots of the ribs.



5. Click on the switch box cover on the switch box and install the 2 screws.

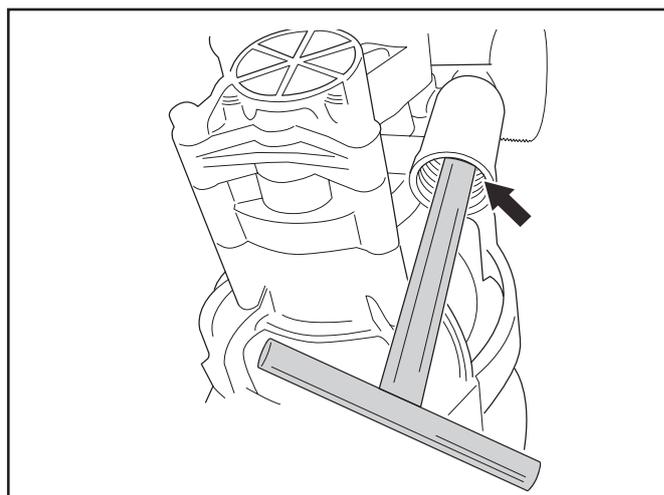
2.6 To disassemble/assemble the start/stop valve

1. Assemble the start/stop valve, see figure below.



2. Use a special tool to remove the seat of the start/stop valve. Use "Puller for valve seat M4" part number 592 94 50-01.

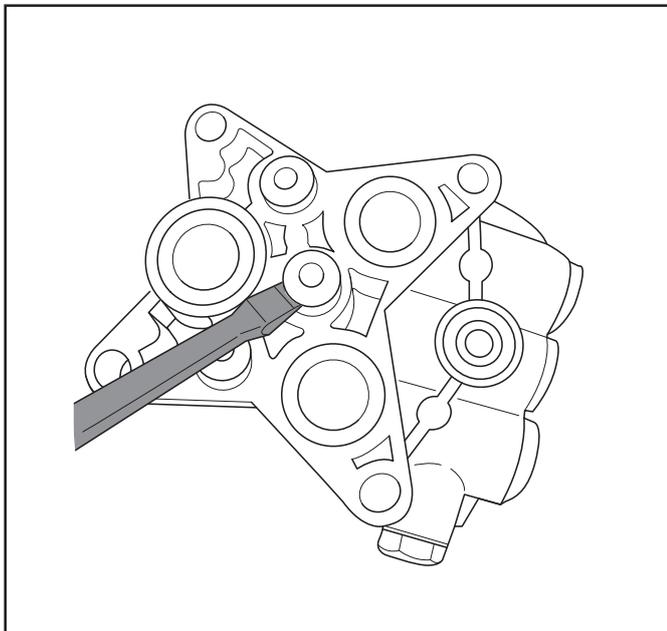
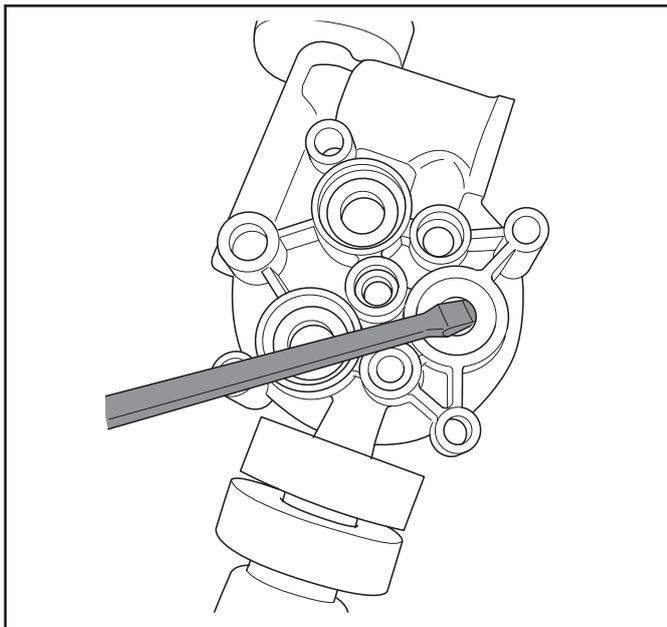
NOTE: The seat of the start/stop valve is no longer usable after using the puller.



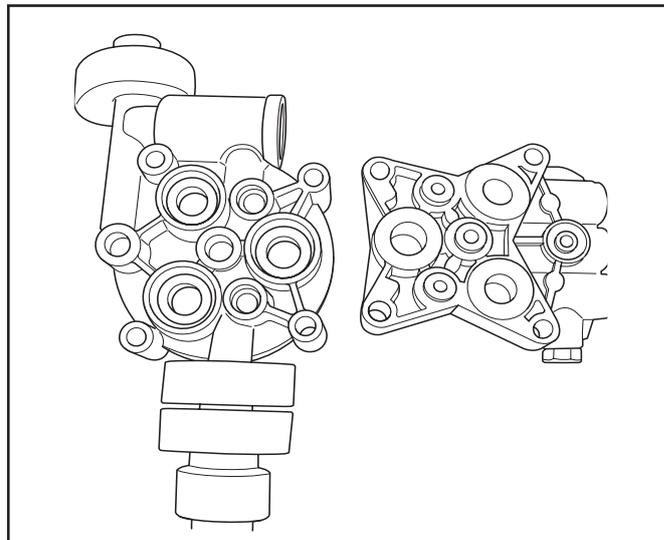
2.7 To disassemble/assemble the water/oil seal and valves

1. To change the oil seals, water seals and pressure valve, use a screw driver to disassemble the parts. Alternatively use a puller, part number 592 94 49-01, to pull out the valves seats (pressure and suction valves).

NOTE: The seat is no longer usable after using the puller.



2. The figure below shows the pump after opening the cylinder head from the cylinder block.

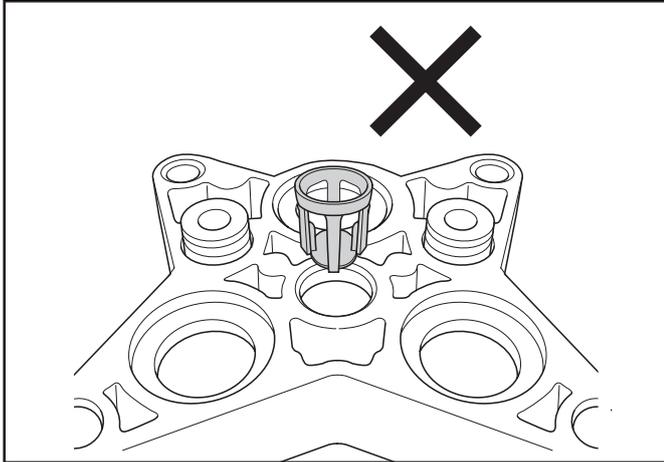


CAUTION: Clean and lubricate the parts before assembly!

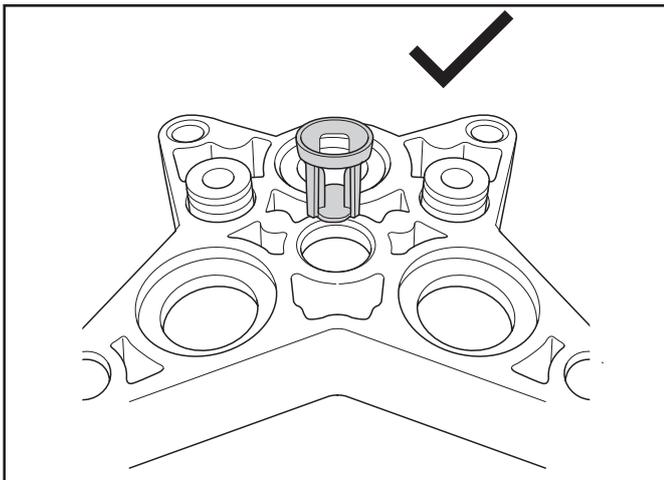


CAUTION: Make sure to position the valve bodies correctly according to the water canals inside the cylinder head. This is to optimize the self suction mode. The “leg” of the valve body must not be placed in front of a canal.

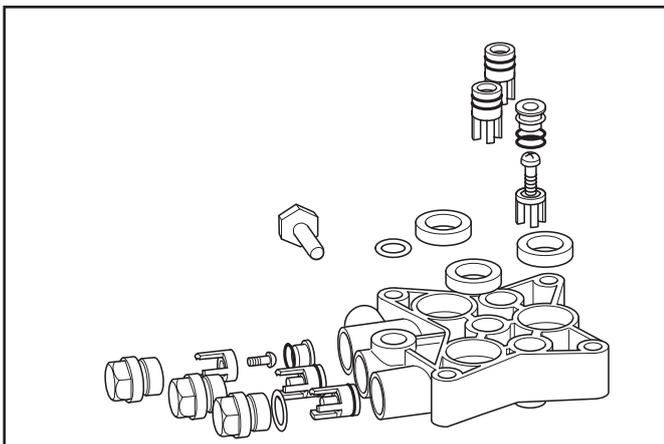
WRONG position:



CORRECT position:



3. Assemble all parts into the cylinder head, see figure below.



3 Specifications

3.1 Technical data

Value	PW 125
Specification	Max 125 bar
Voltage	220-240 V
Frequency	50-60 Hz
Power consumption	6.5 A
Power absorbed	1.5 kW
Numbers of revolutions	16,000-17,000 rpm./min.
Water volume, HP	5.4 l/min
Pump pressure	95 bar
Nozzle pressure	75-85 bar
Opening pressure	110-130 bar
Retaining time	5 min
Oil contents	55 ml
Oil type	ARTL 32
Max water inlet temperature	40 °C
Max water inlet pressure	10 bar
High pressure hose length	6m, textile
Suction height	0.5 m
Electric cable	5 m
Insulation class	B
Tightness	IPX5

4 Appendices and schemas

4.1 Operating supplies

4.1.1 Recommended oil types

The pump is filled with 55 ml ARTL 32 from the production.

In case of service where the oil must be changed, Husqvarna recommends to use 80 ml Bartran HV 46.

Alternative oil types that are allowed:

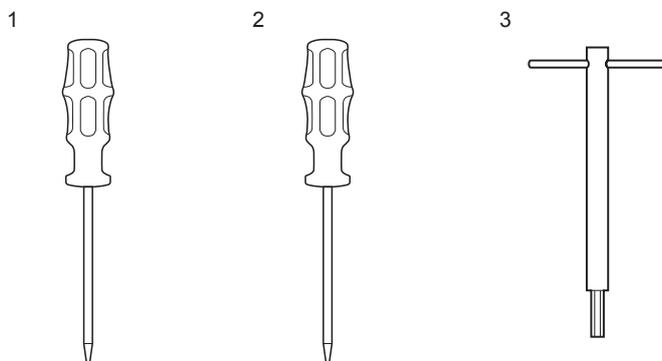
- BP, Bartram HV 46
- Shell, Tellus T 46
- Exxon, Statoil Univas N 46
- Mobil Oil Mobil DTE 25.

4.1.2 Recommended lubrication

White grease for o-rings, sealings etc.:

- Silicone grease,
DOW CORNING(R) 55 O-RING LUBRICANT

4.1.3 Special tools

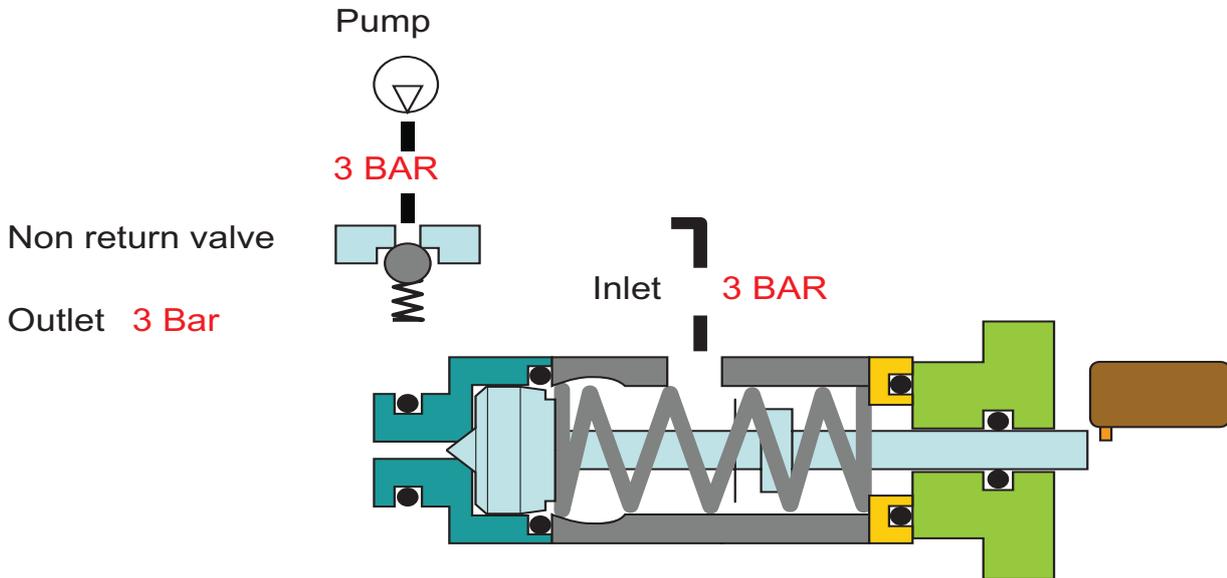


Item	Description	Used for	Article number
1	Screw driver, flat	For lock clamps	N/A
2	Screw driver, PH2	For screws	N/A
3	M4 Puller	For valve seat	592 94 50-01
3	M8 Puller	For valve seat	592 94 49-01

4.2 Start stop System guide

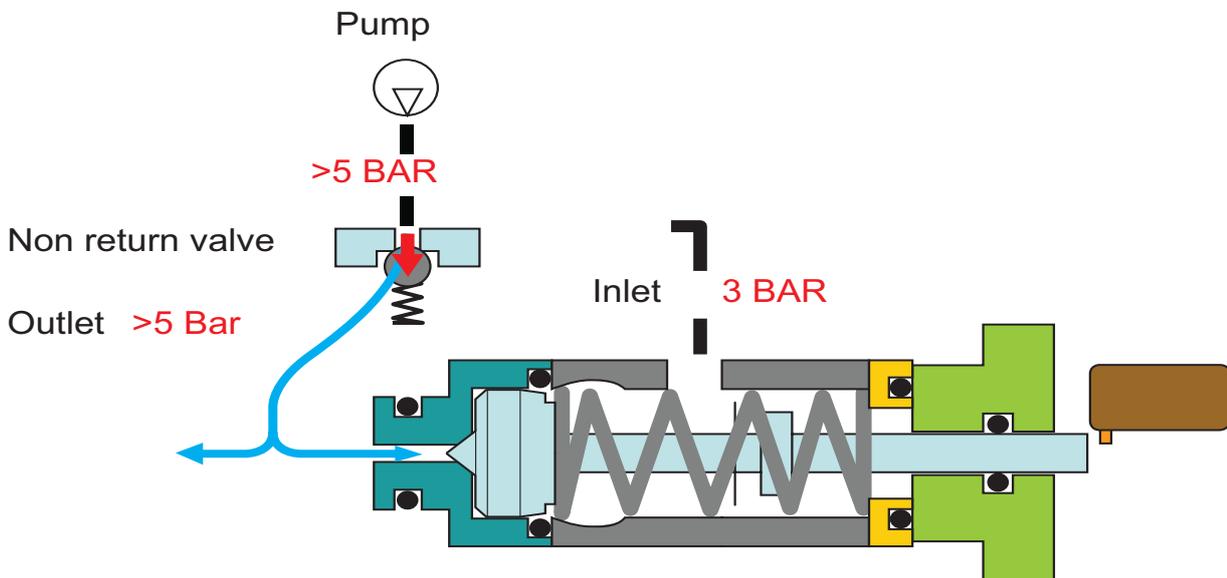
4.2.1 No pressure in system

No pressure in system - except inlet pressure 3 bar. Machine switch off.

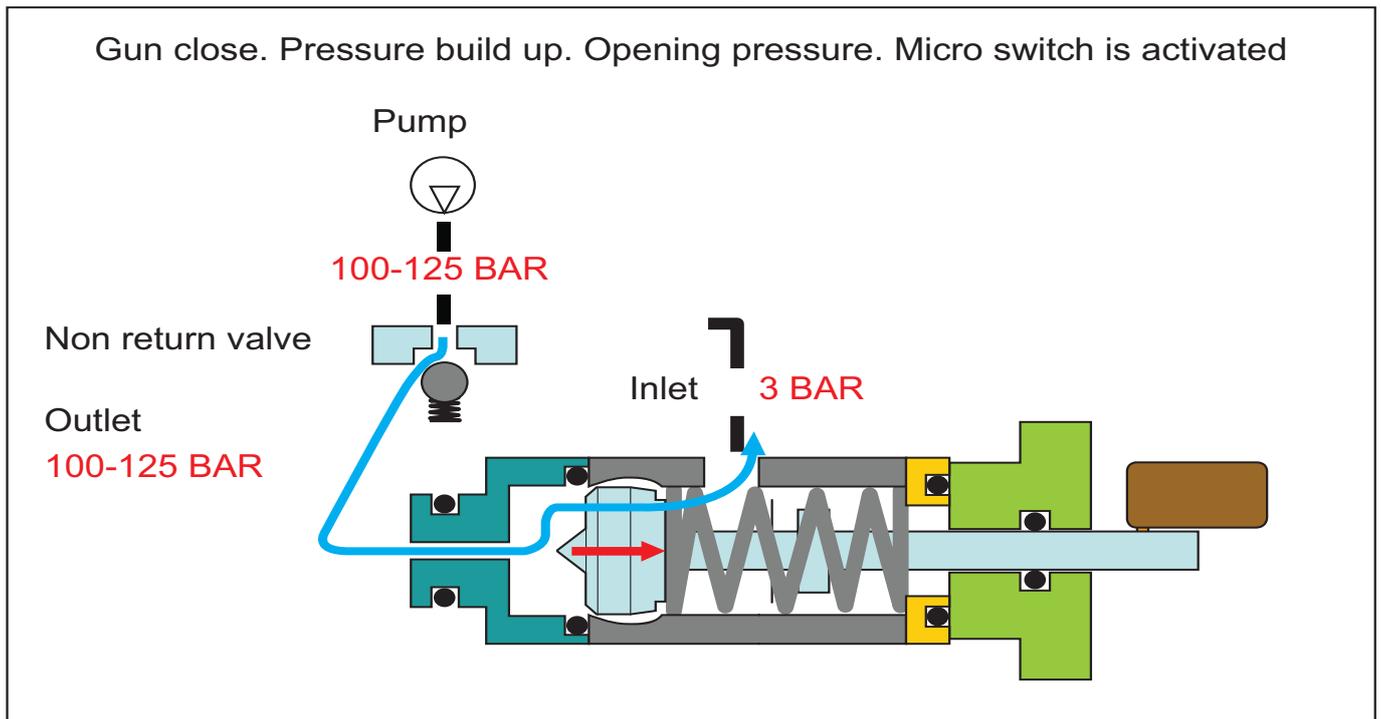


4.2.2 Start up-pressure build up

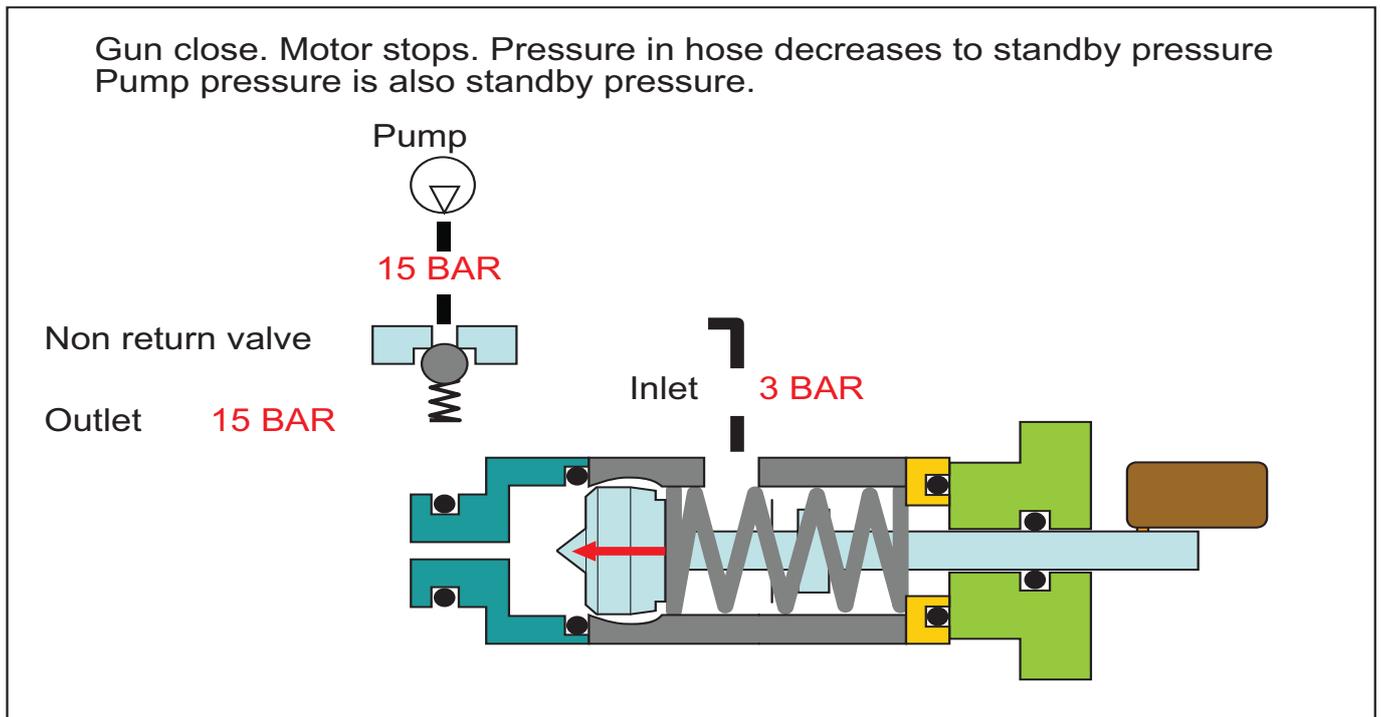
Machine switch on / Start up - Pressure build up



4.2.3 Pressure build up-opening pressure/close gun

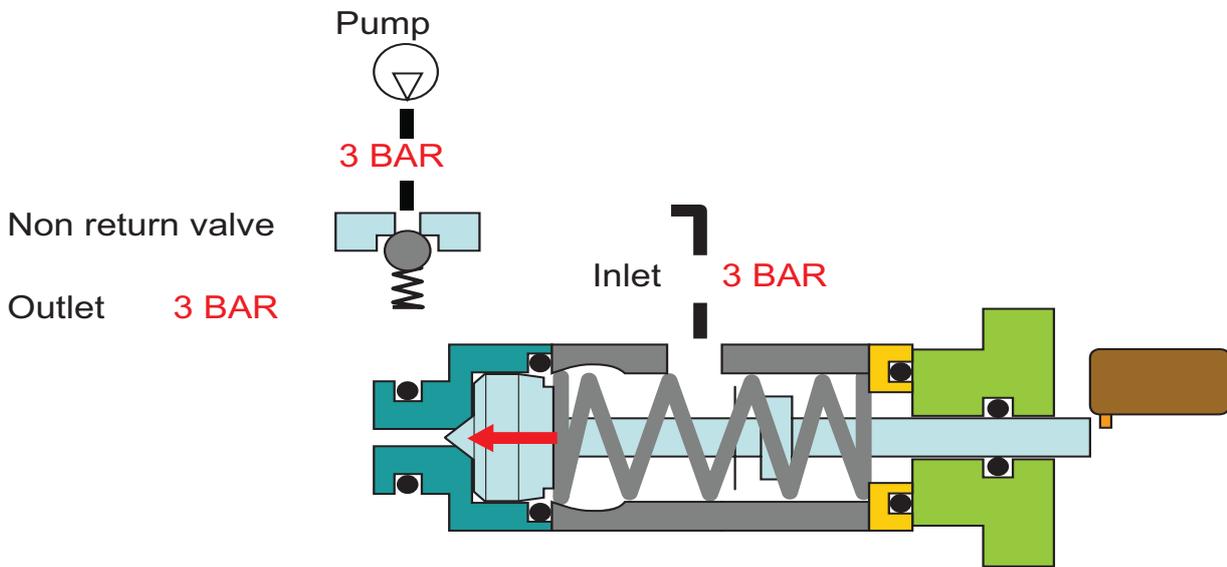


4.2.4 Motor stop – Standby pressure



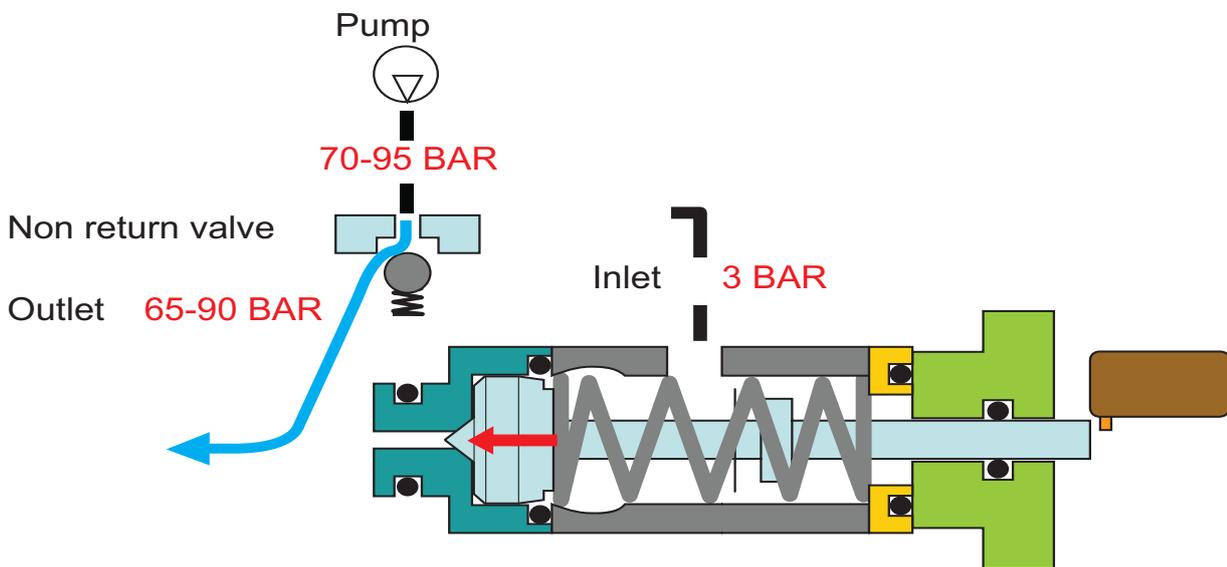
4.2.5 Gun is activated

Gun is open - Control piston is closed. Micro switch is deactivated.
Motor starts.

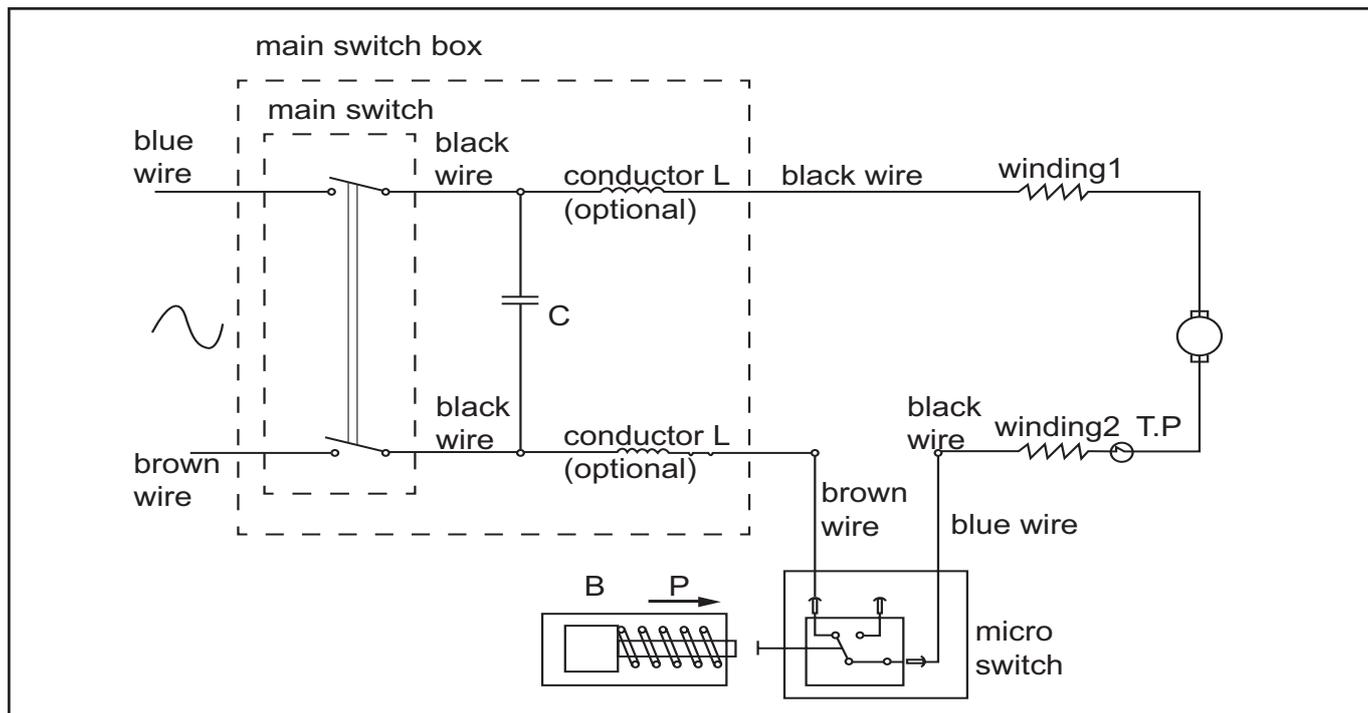


4.2.6 Machine run

Machine runs (normal working pressure). Gun is open.



4.3 Wiring diagram



- br Brown
- bl Blue
- so Black
- gu Yellow
- hv White

- C1 Capacitor
- S1 Switch
- S2 Single-pole switch/
micro switch

- CU Control unit
- M Motor



www.husqvarna.com

115 97 58-26

2017-11-24