

Nilfisk

C 100.7

C 105.7

C 110.7

C 120.7 - C 120.7 X-TRA

C 125.7 - C 125.7 X-TRA



Repair Manual ver. 1.1

Nilfisk

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WARNING!

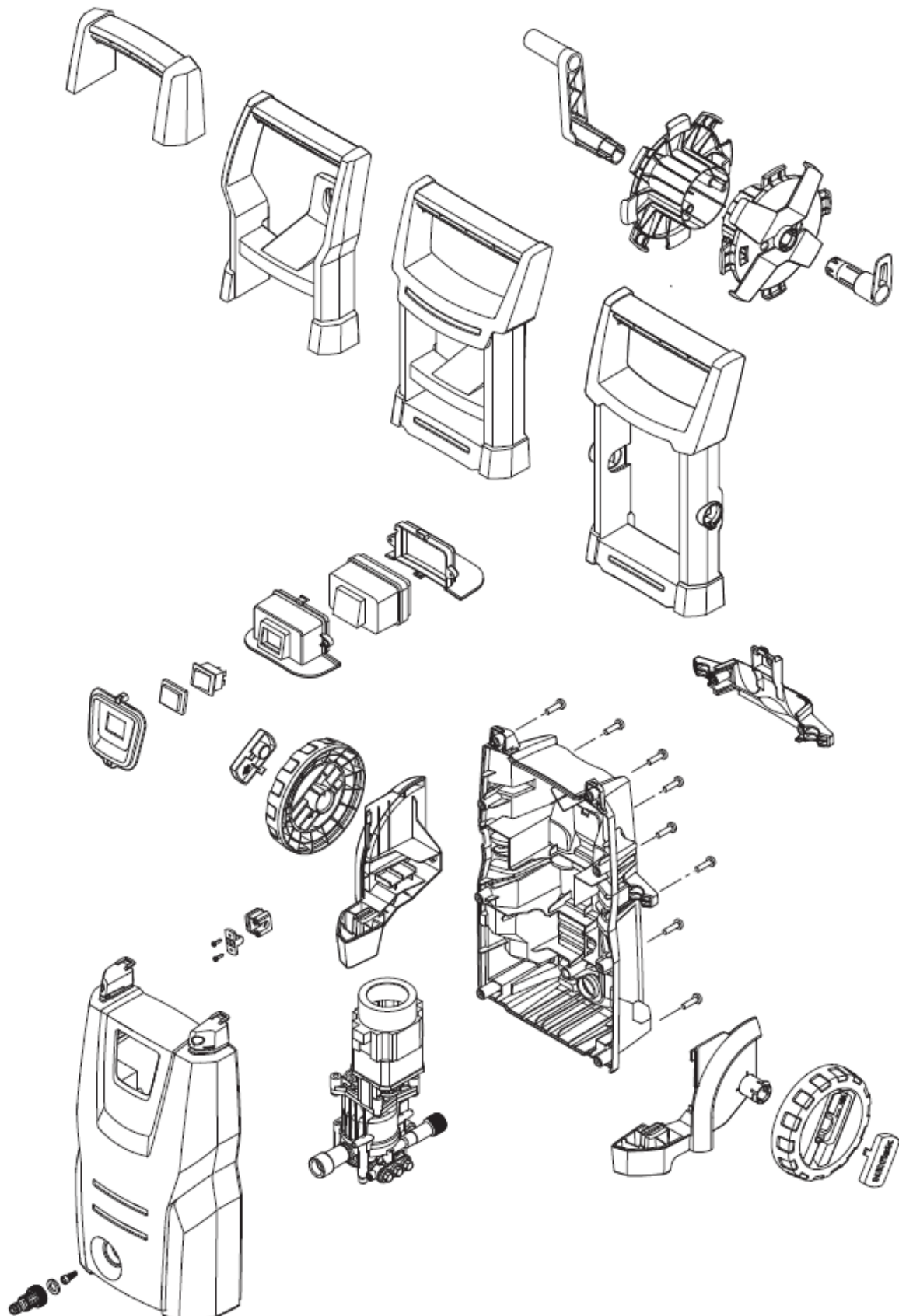
- High pressure jets can be dangerous. Never direct the water jet at persons, pets, live electrical equipment or the machine self.
- The operator and anyone in the immediate vicinity of the site of cleaning should take action to protect themselves from being struck by debris dislodged during operation. Wear goggles during operation.
- Never try to clean clothes or footwear on yourself or other persons.
- Do not let children or people who have not read the instruction manual operate the machine.
- Never use the machine in an environment where there could be a danger of explosion. If any doubt arises, please contact the local authorities.
- It is not allowed to clean asbestos- containing surfaces with high pressure.
- This high pressure washer must not be used at temperatures below 0°C.
- Never let any persons stay under the product when stored on the wall.

Product segment: Consumer		C100.7	C105.7	C110.7 / C110.7 X-tra
Specification	bar	Max 100	Max 105	Max 110
Voltage	V	220-240	220-240	220-240
Frequency	Hz	50-60	50-60	50-60
Power consumption	A	6	6	6
Power absorbed	KW	1,3	1,4	1,4
Numbers of revolutions	rpm./ min.	17.500-18.500	17.500-18.500	17.500-18.500
Water volume, HP	l / min.	5,3	5,2	5,2
Pump pressure	bar	70	75	80
Nozzle pressure	bar	53-63	57-67	62-72
Opening pressure	bar	90-110	90-110	90-110
Retaining time	min.	5	5	5
Oil contents	ml	55	55	55
Oil type		ARTL 32	ARTL 32	ARTL 32
Max water inlet temperature	C	40	40	40
Max water inlet pressure	bar	10	10	10
High pressure hose length	m	3m/5m Textile	5m Textile	5m Textile
Suction height	m	0,5	0,5	0,5
Electric cable	m	5m	5m	5m
Insulation class		B	B	B
Tightness		IPX5	IPX5	IPX5

Product segment: Consumer		C120.7 / C120.7 X-tra	C125.7 / C125.7 X-tra
Specification	bar	Max 120	Max 125
Voltage	V	220-240	220-240
Frequency	Hz	50-60	50-60
Power consumption	A	6	6,5
Power absorbed	KW	1,4	1,5
Numbers of revolutions	rpm./ min.	16.500-17.500	16.000-17.000
Water volume, HP	l / min.	5,2	5,4
Pump pressure	bar	85	95
Nozzle pressure	bar	66-76	75-85
Opening pressure	bar	110-130	110-130
Retaining time	min.	5	5
Oil contents	ml	55	55
Oil type		ARTL 32	ARTL 32
Max water inlet temperature	C	40	40
Max water inlet pressure	bar	10	10
High pressure hose length	m	6m Textile	6m Textile
Suction height	m	0,5	0,5
Electric cable	m	5m	5m
Insulation class		B	B
Tightness		IPX5	IPX5

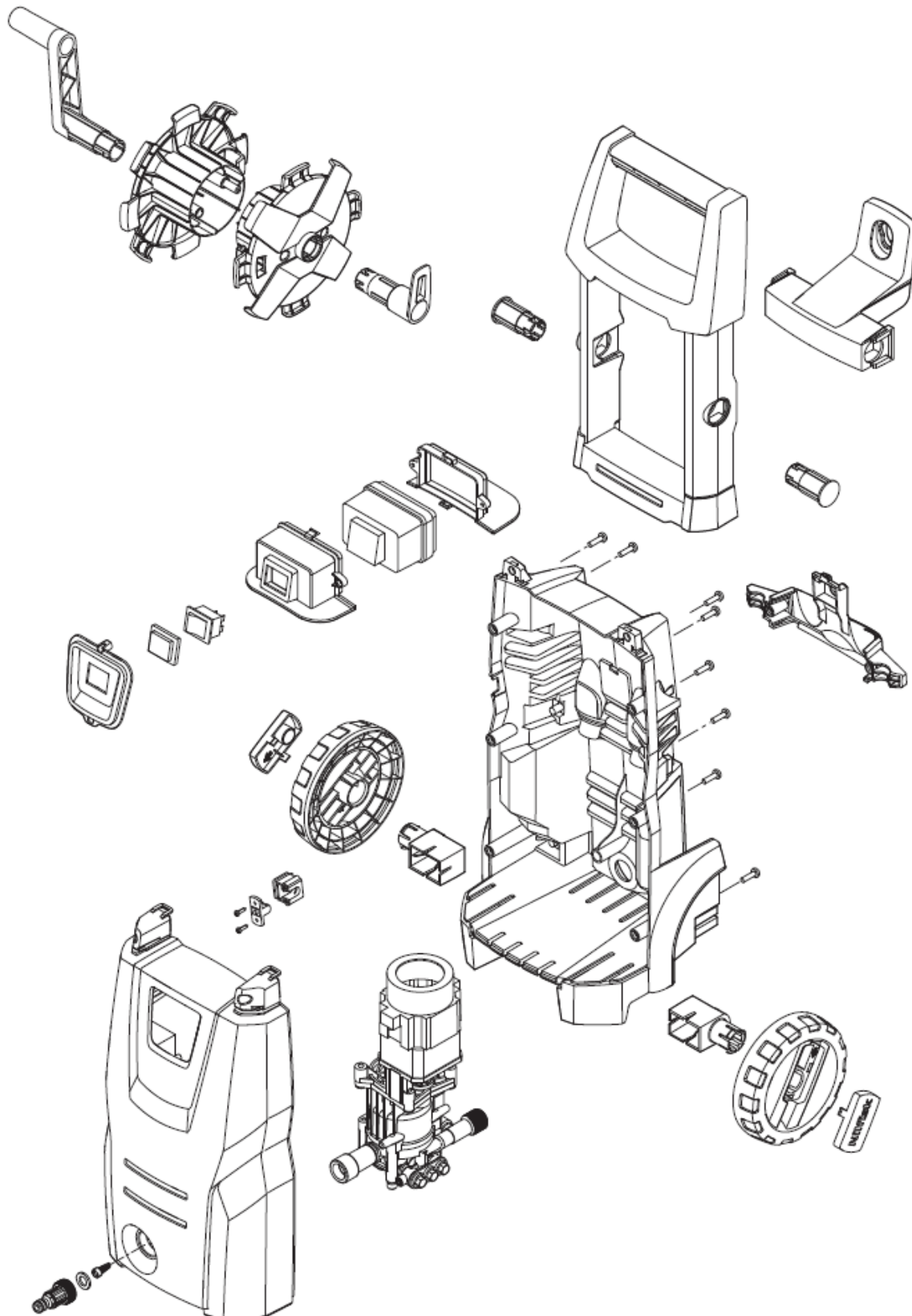
C 100.7 - C 105.7 - C 110.7 C 120.7 - C 120.7 X-TRA

Construction of cabinet parts.



C 125.7 - C 125.7 X-TRA

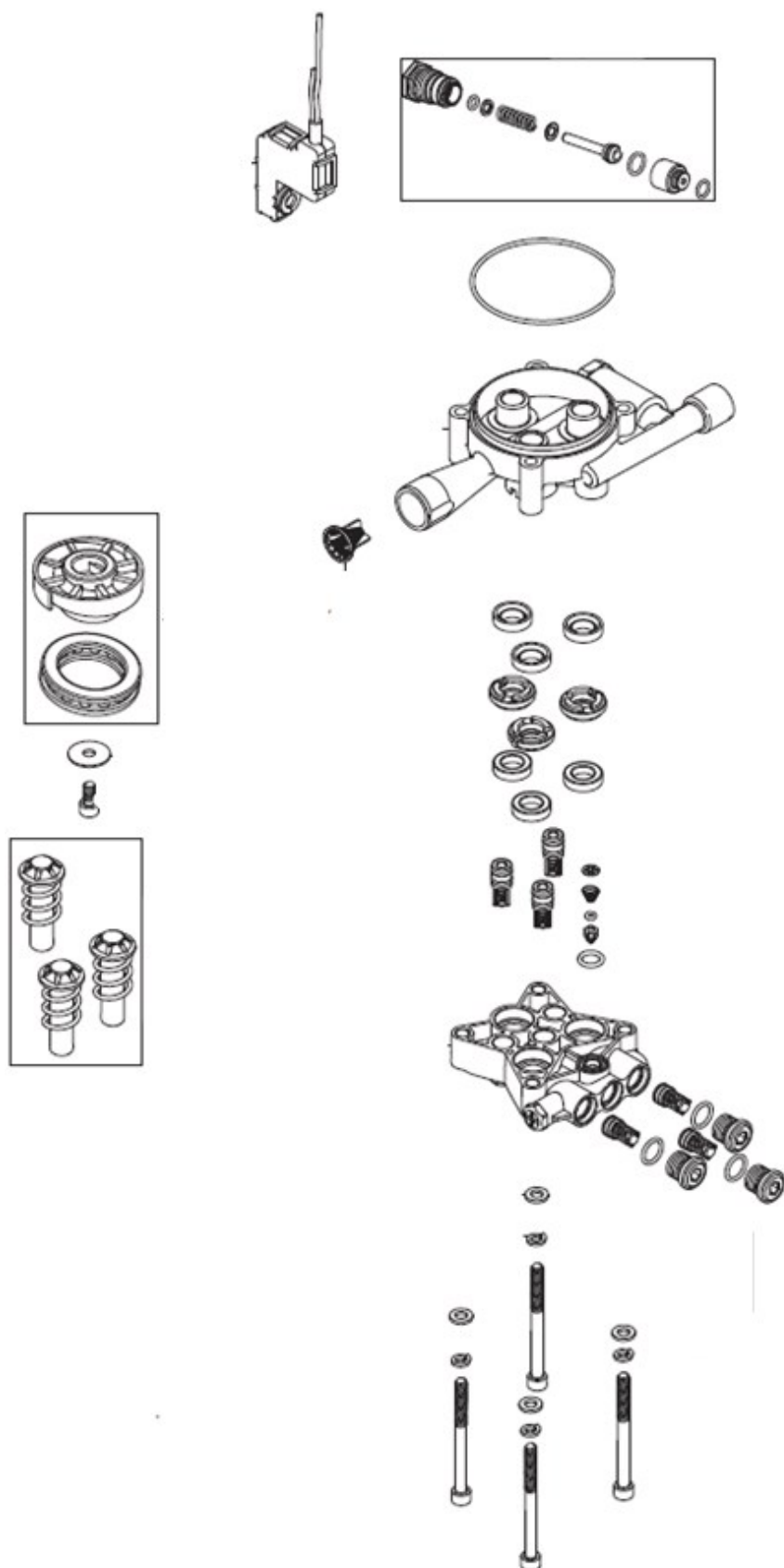
Construction of cabinet parts.



C 100.7 - C 105.7 - C 110.7

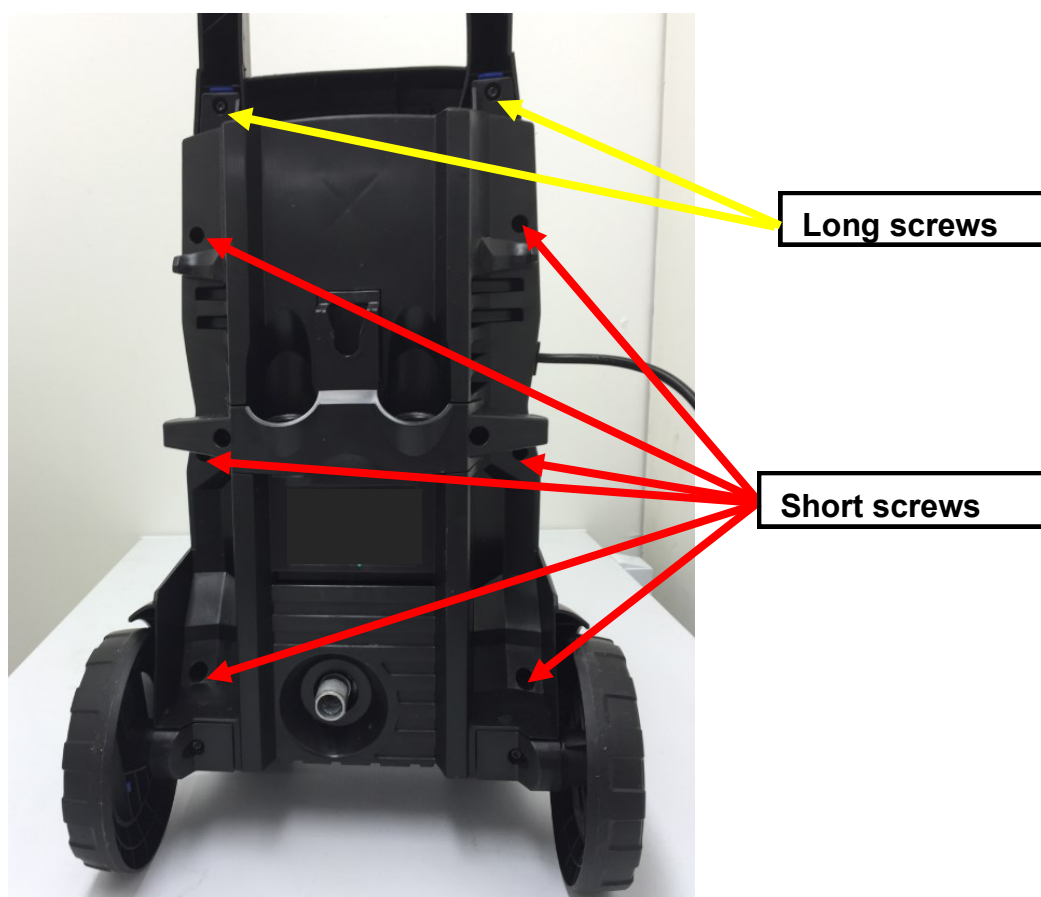
C 120.7 - C 120.7 X-TRA - C 125.7 - C 125.7 X-TRA

Construction of pump unit.



Dismounting of cabinet rear part on following variants:**C 100.7 - C 105.7 - C 110.7 - C 120.7 - C 120.7 X-TRA**

1. Tools: Screwdriver PH2
2. Remove the 2 screws (Long) fixing the handle
3. Remove the 6 screws (Short) from the rear side (fig. 3)
4. Don't remove the accessory bracket and the wheels
5. The cabinet rear part can be removed and there is now access to the motor pump unit

Fig. 1**Fig. 2**

Dismounting of cabinet rear part on following variants:**C 125.7 - C 125.7 X-TRA**

1. Tools: Screwdriver PH2
2. Remove the 2 screws (Long) fixing the handle (fig. 3)
3. Remove the 6 screws (Short) from the rear side (fig. 4)
4. Don't remove the accessory bracket
5. Remove the wheels and remove the 2 screws behind the wheel parts (fig. 5)
6. The cabinet rear part can be removed and there is now access to the motor pump unit

Fig. 3**Fig. 4****Long screws****Short screws****Fig. 5**

Dismount / mounting of switch box cover and switch box.

1. Remove the 2 screws . Fig 1
2. Release the snap on switch box form the hook on the switch box cover. Fig 2
3. Release the hook on the switch box from the snap on the switch box cover by using a small ordinary screw driver and remove the switch box cover Fig 3
4. *Assembly: Ensure that the cover/gasket on the on/off switch is correctly mounted in the hole in the front part and the taps on the switchbox is fixed the slots in the ribs Fig. 4*
5. Click on the switch box cover on the switch box and mount the 2 screws

Fig. 1



Fig. 2

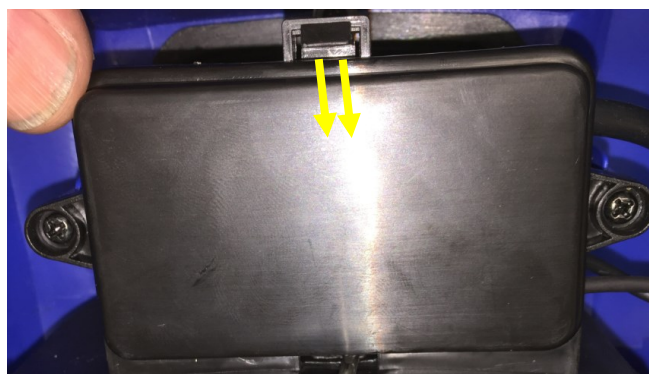
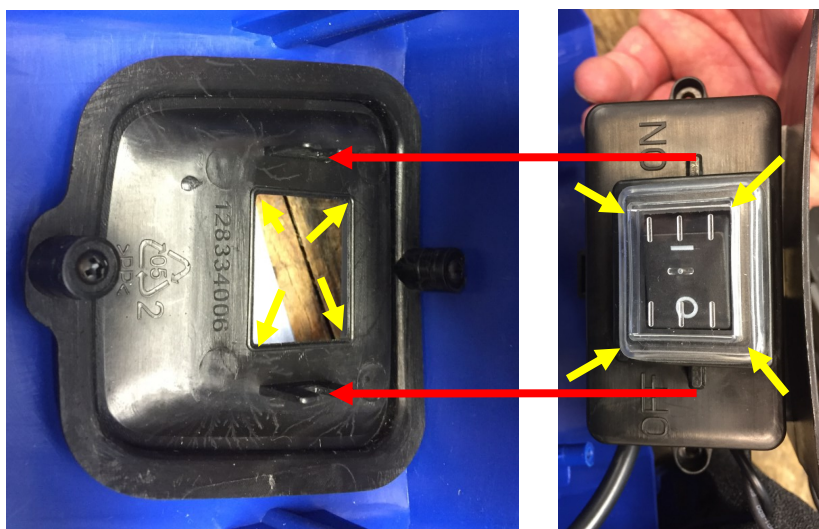


Fig. 3



Fig. 4



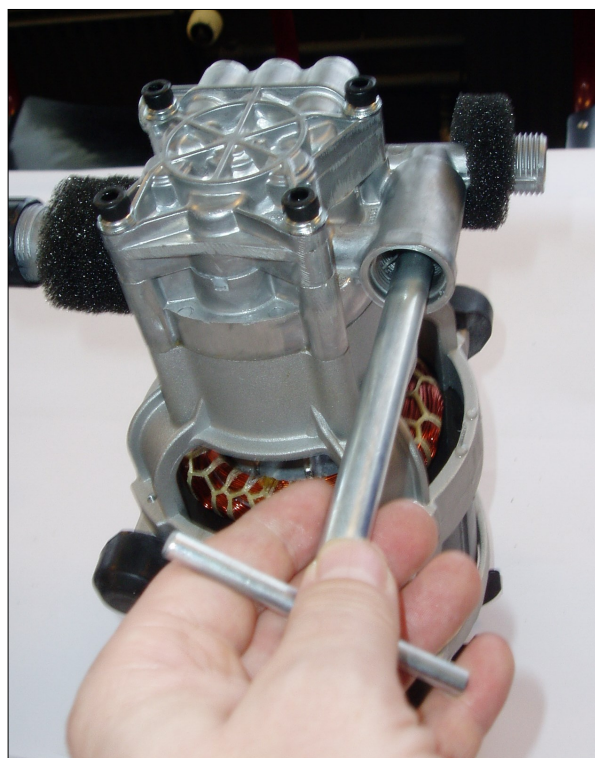
Dismounting / mounting of the start / stop valve.

Fig 1 is showing how the start / stop valve must be assembled.

A special tool is needed in order to take out the seat of the start / stop valve (fig 2)

Please use "Puller for valve seat M4" item number 31000189.

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

Fig. 1**Fig. 2**

Dismounting / mounting of water / oil seal and valves.

To change the oil seals, water seals and pressure valve, use a screw driver to dismount the parts (fig 3 & 4).

Alternatively there is a puller number 1220103 to pull out the valves seats (pressure and suction valves).

Note: the seat is no longer usable after using the puller

Cleanup and lubricate before mounting!

Fig 1 is showing the pump after opening the cylinder head from the cylinder block.

Fig 2 is showing how all the parts must be assembled into the cylinder head.

Fig. 1



Fig. 2

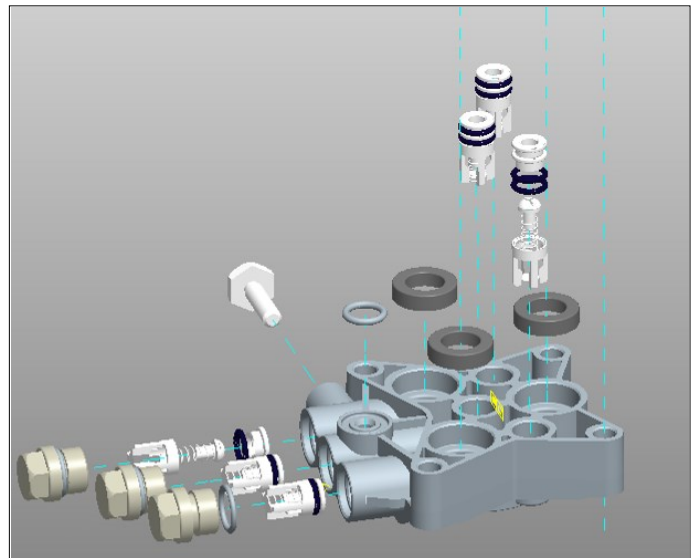


Fig. 3

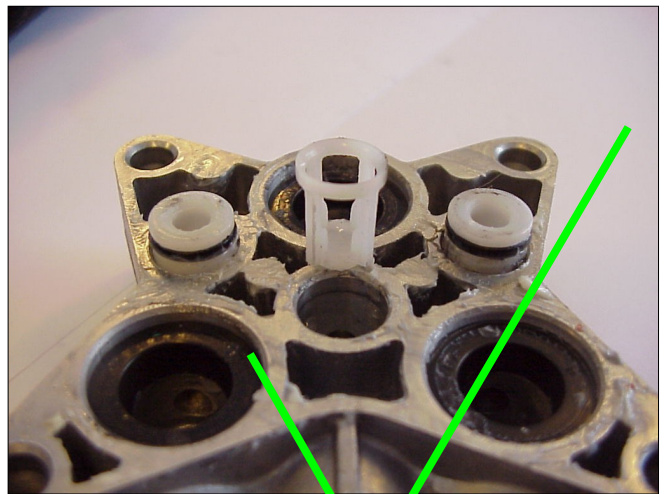


Fig. 4



IMPORTANT mounting information:

In order to optimize the self suction mode the valve bodies must be positioned correct according to the water canals inside the cylinder head. The “leg” of the valve body must not be placed in front of a canal. Fig 1 is showing the WRONG positioning and fig 2 is showing the CORRECT positioning.

Fig. 1**Fig. 2**

Precaution when assembling the switch box.

1. Ensure that the cable and the 2 wires are mounted in the grooves Fig. 1

Precautions when assembling the machine.

1. Ensure that the gasket for the water inlet is mounted correctly inside the front part before mounting the motor pump unit in the front part Fig. 2
2. Ensure the power cable is not placed on the internal ribs before assembly Fig. 3
3. Ensure the cable relief is mounted correctly Fig. 3

Fig. 1

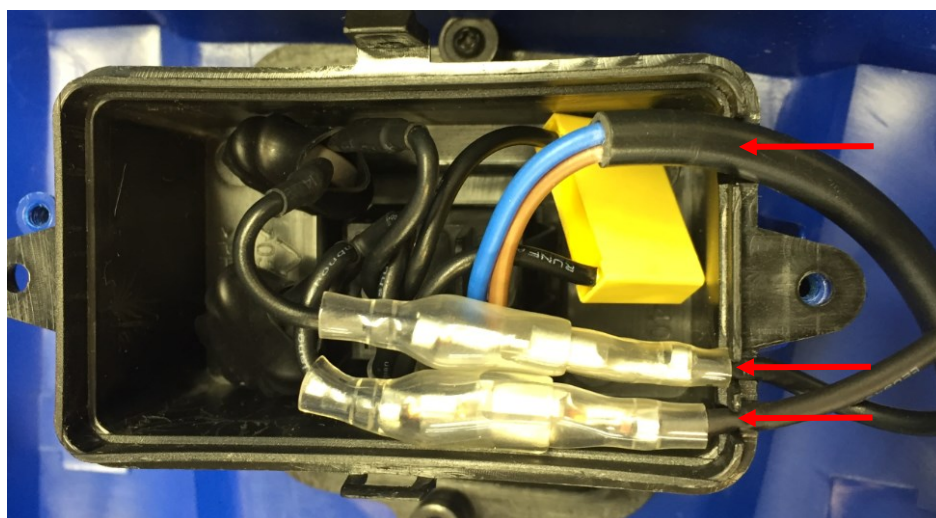
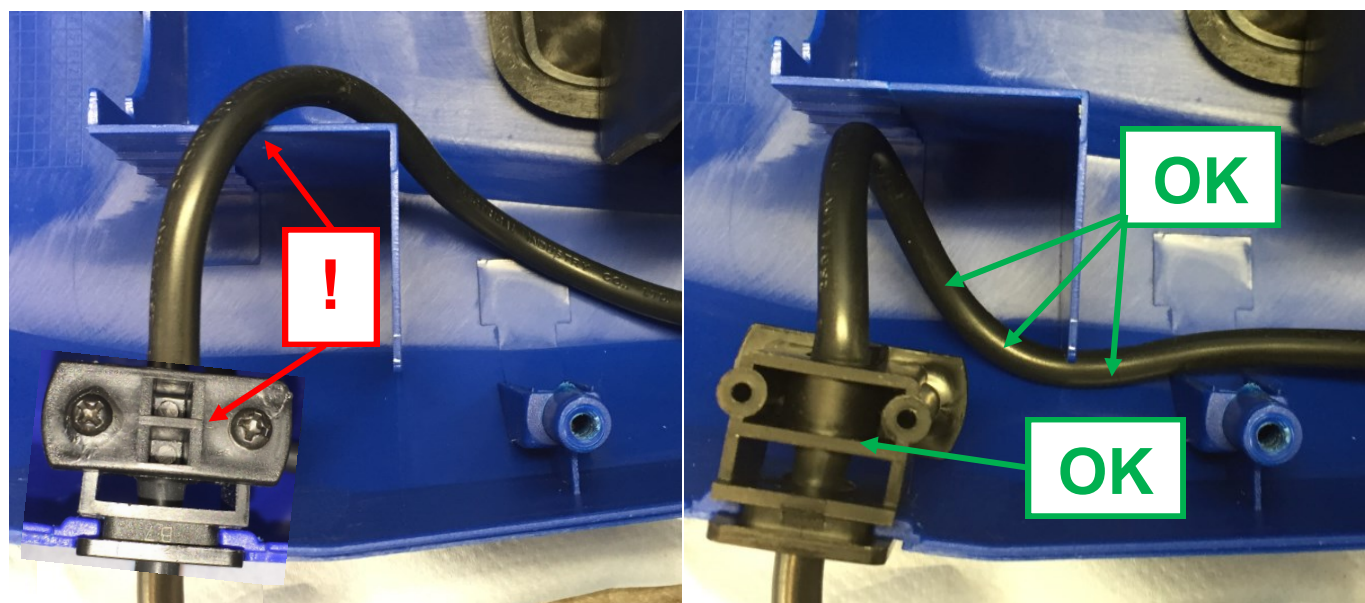


Fig. 2



Fig. 3



Assembly of cabinet rear part on following variants:

C 125.7 - C 125.7 X-TRA

1. Tools: Screwdriver PH2 Fig. 3
2. Note that screws has different lengths:
Short type: 8 pcs
Long type 2 pcs (for handle):
3. Mount 2 short screws behind the wheel parts (fig. 5)
4. Ensure that the wheels are mounted correctly by sliding the parts together, before mounting the screws Fig. 6
5. Mount the wheels and mount 6 short screws on rear side (fig. 4)
6. Mount the handle and the 2 long screws to fix the handle (fig. 4)

Fig. 3



Fig. 6

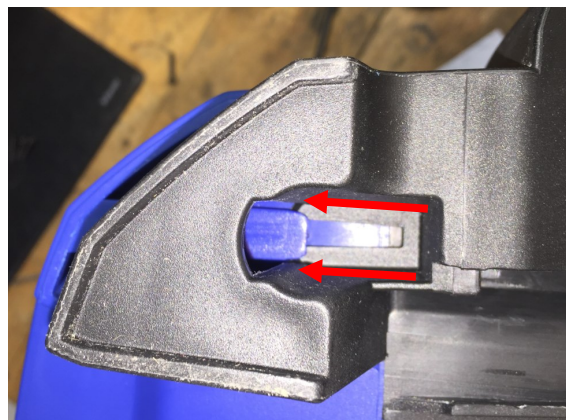
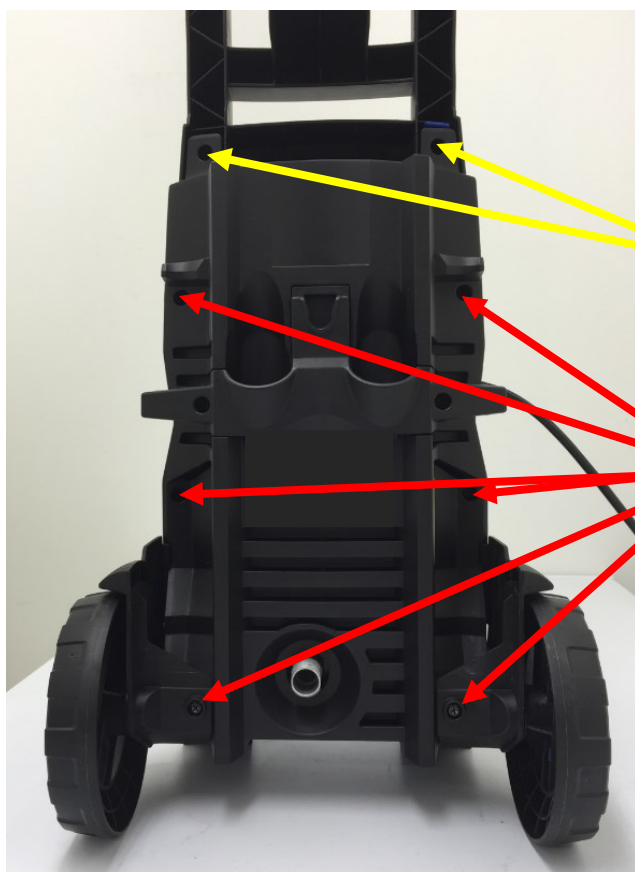


Fig. 4



Long screws

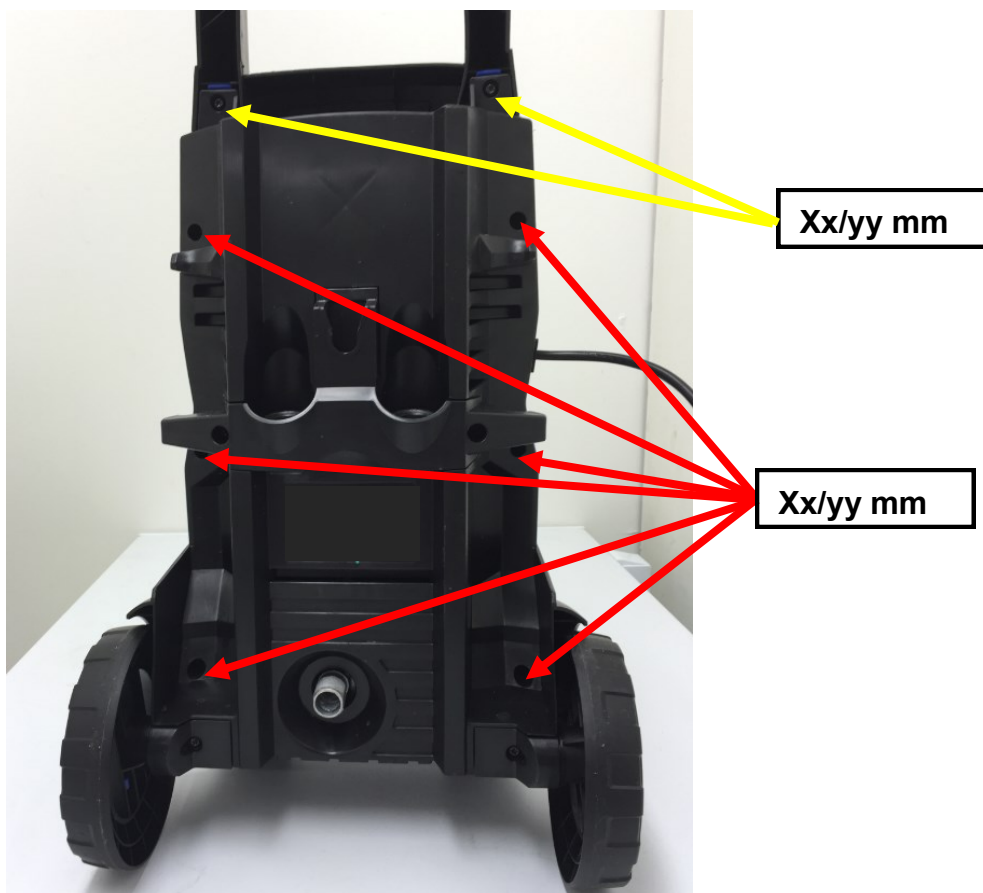
Short screws

Fig. 5

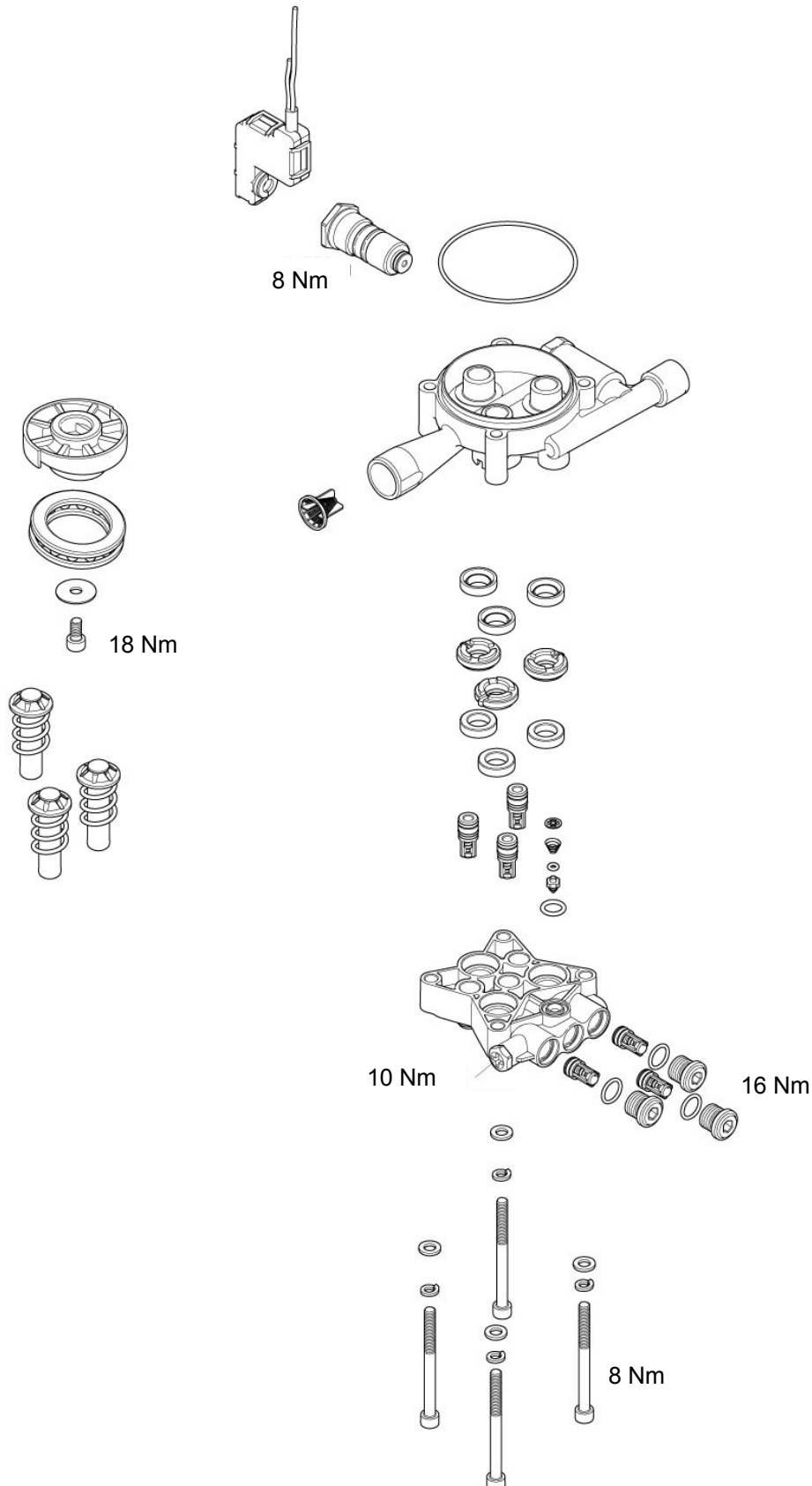


Assembly of cabinet rear part on following variants:**C 100.7 / C 105.7 / C 110.7 / C 120.7 / C 120.7 X-TRA**

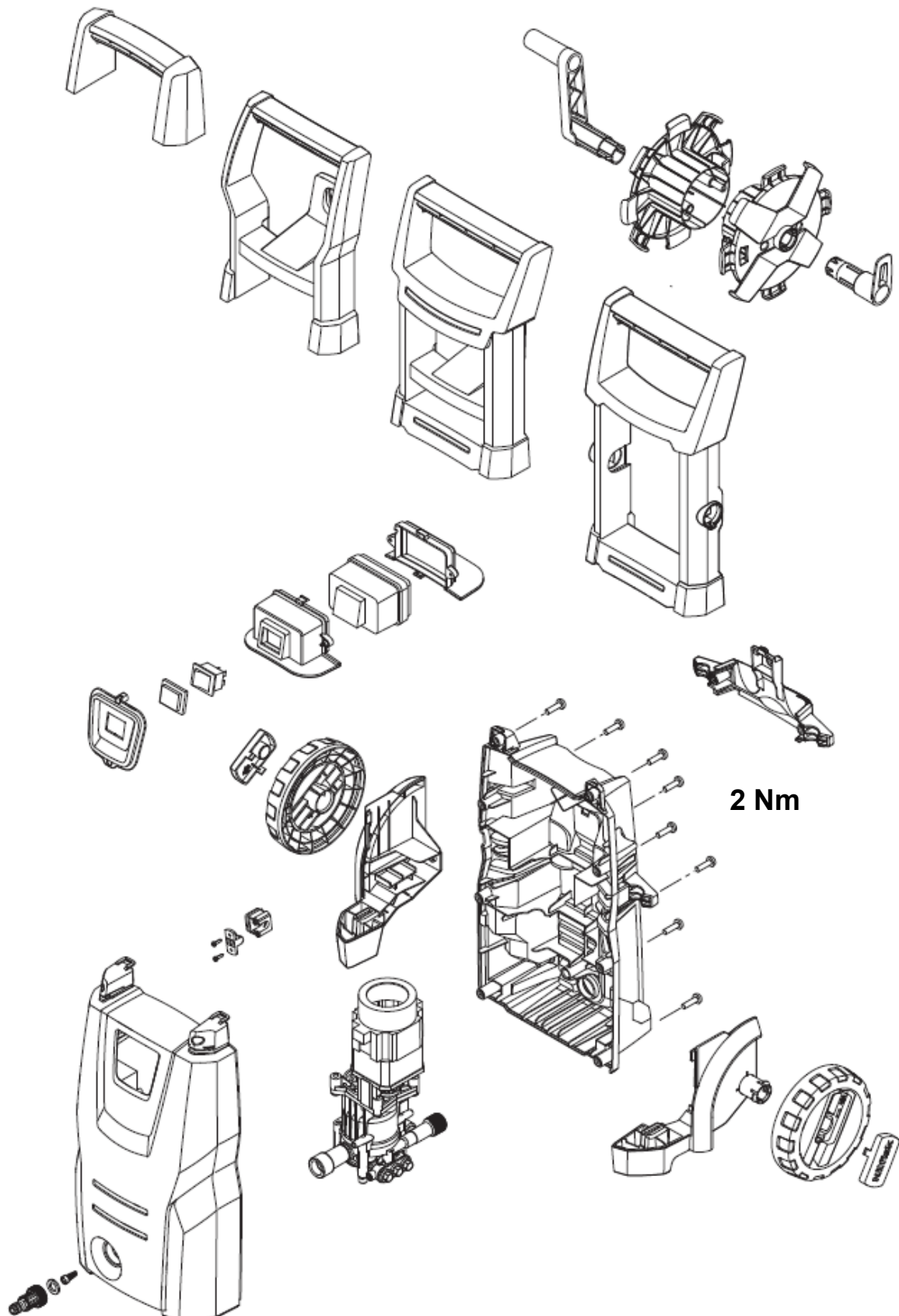
1. Tools: Screwdriver PH2
2. Mount the 6 short screws from the rear side (fig. 3)
3. Mount the handle and the 2 long screws to fix the handle

Fig. 1**Fig. 2**

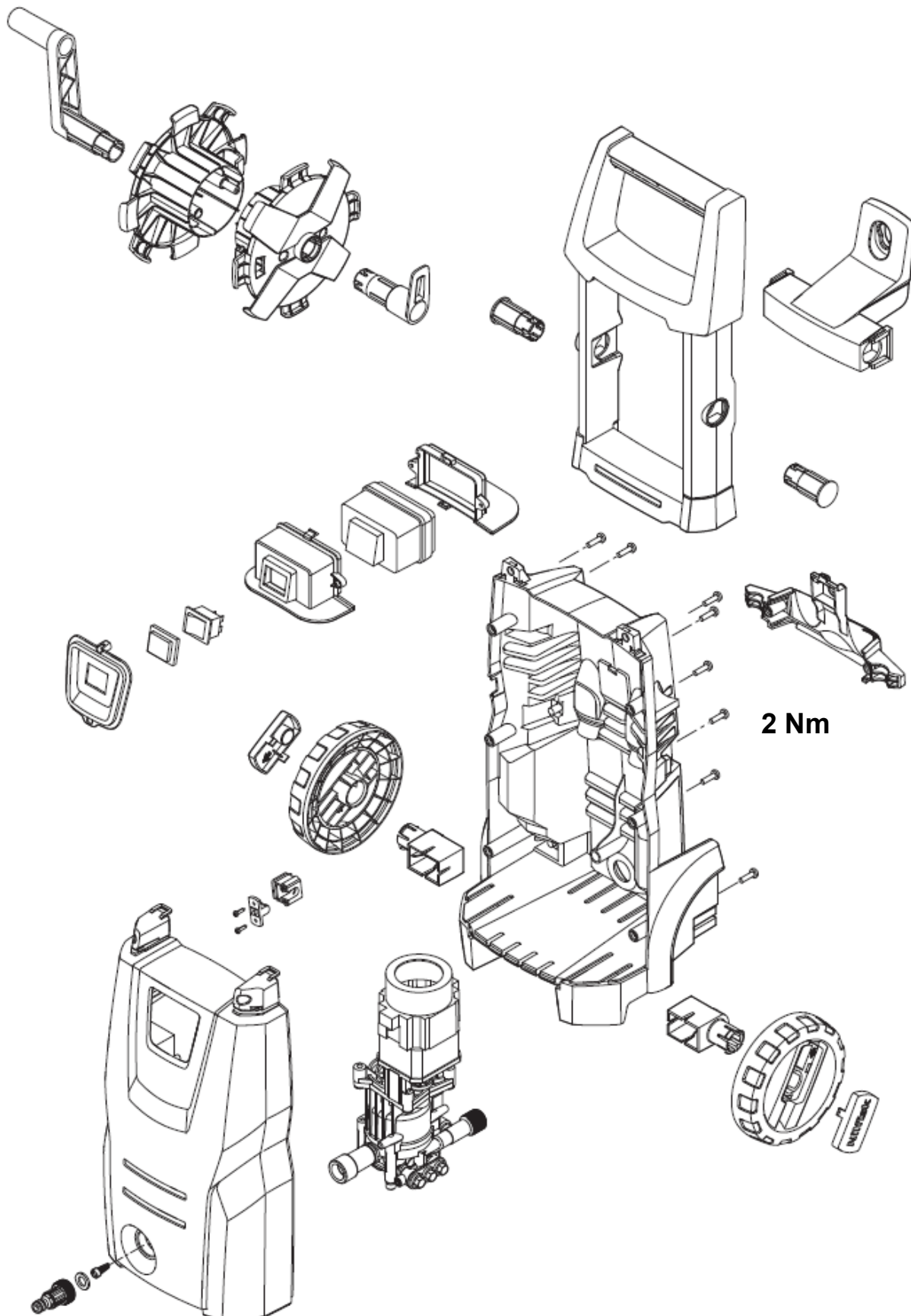
Pump torque.



Cabinet torque. C 100.7 - C 105.7 - C 110.7 - C 120.7 - C 120.7 X-TRA



Cabinet torque. C 125.7 - C 125.7 X-TRA



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 Nilfisk-Advance recommends to use 80 ml Bartran HV 46.

Alternative oil types that are allowed:

BP, Bartram HV 46

Shell, Tellus T 46

Exxon, Statoil Univis N 46

Mobil Oil Mobil DTE 25

Recommended lubrication:

White grease for o-rings, sealings etc.:

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

Special tools:

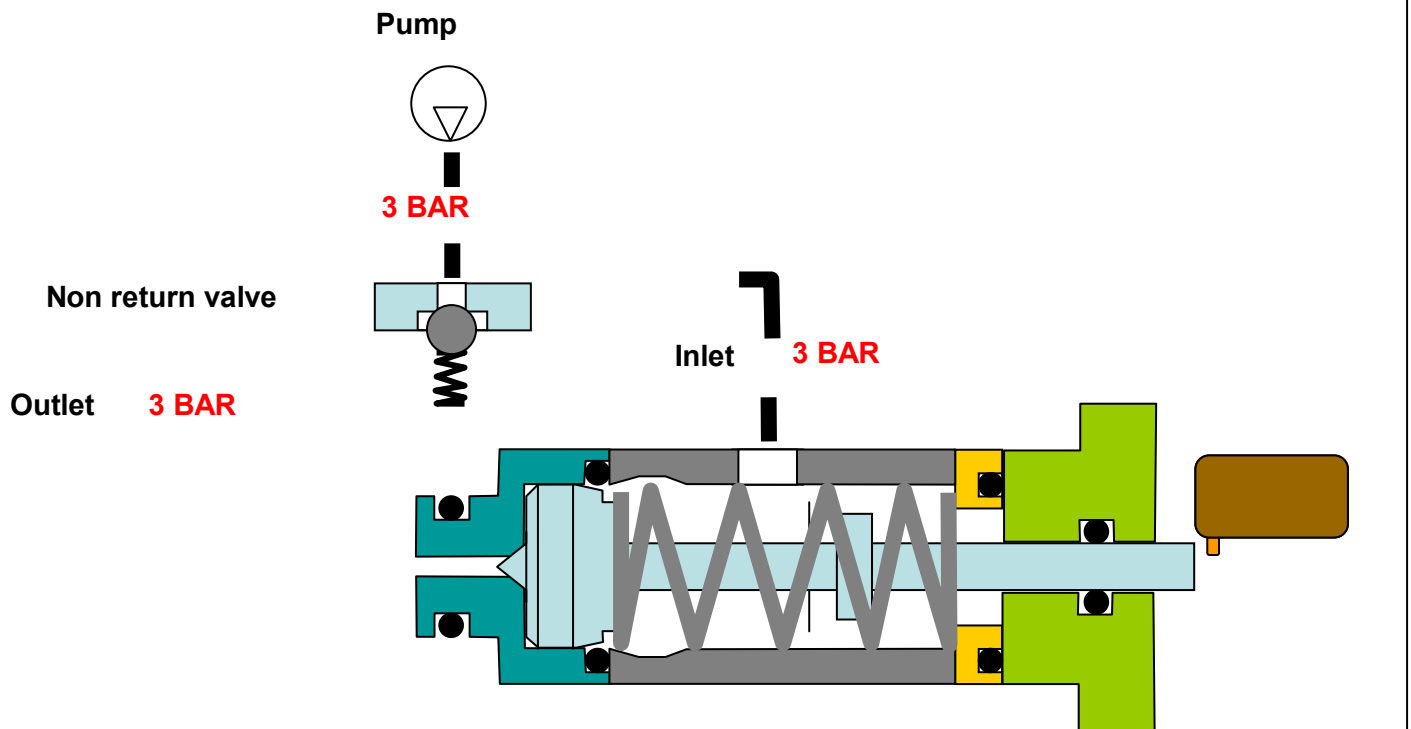
Puller for valve seat M4—item number 31000189 (Page 12).

Puller for valve seat (pressure and suction valve) - item number 1220103 (Page 13)

3.0 Start stop System guide

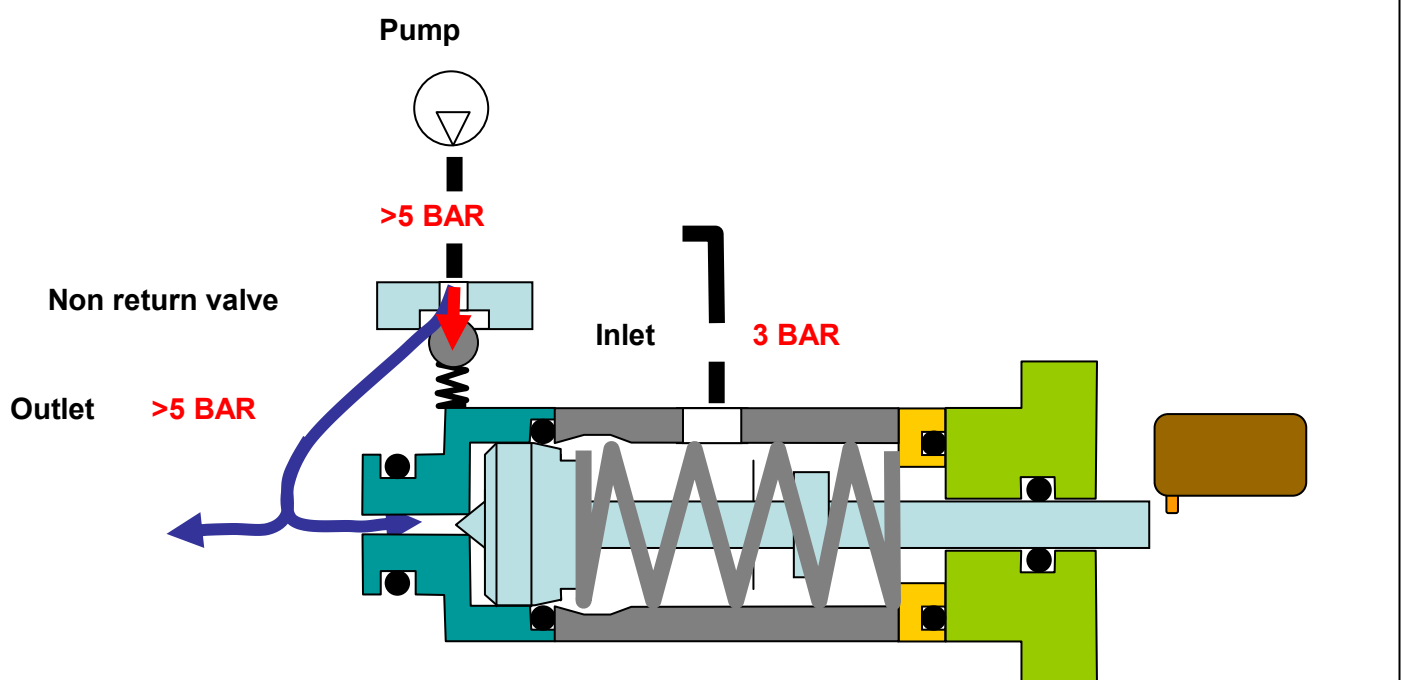
3.1 No pressure in system

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



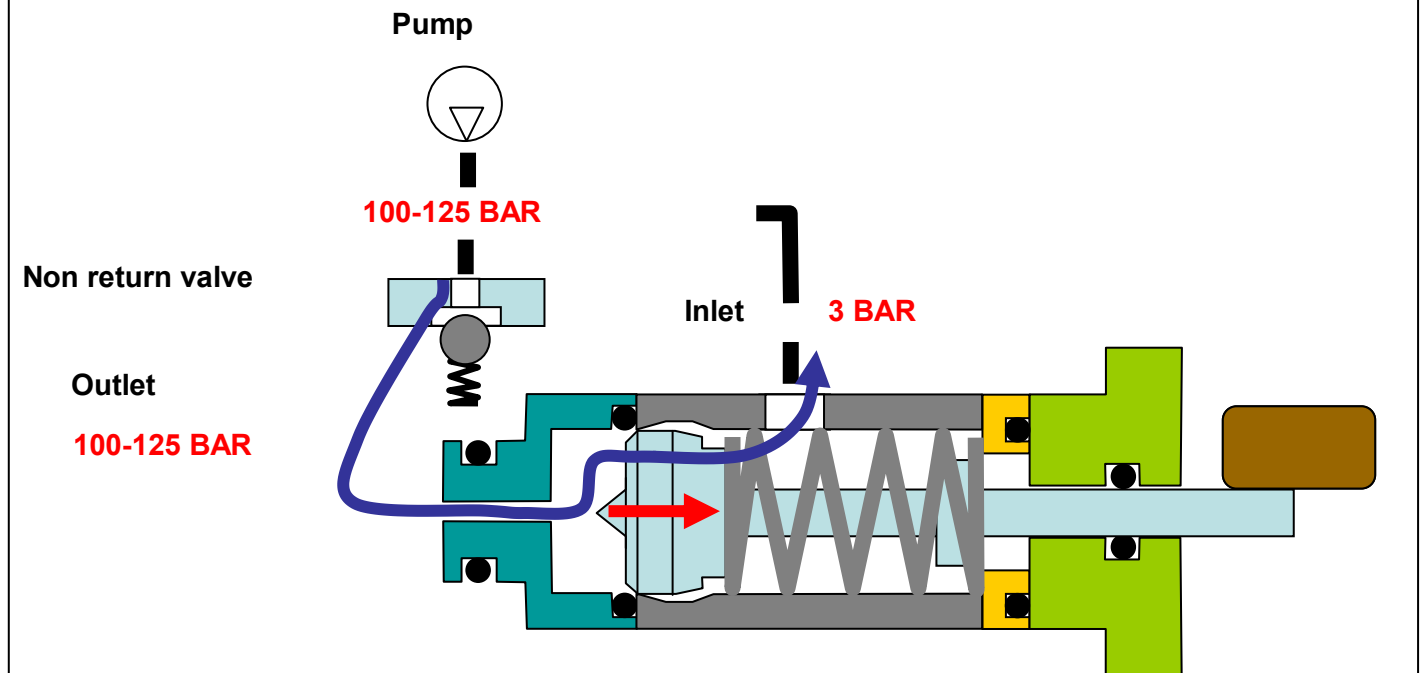
3.2 Start up-pressure build up

Machine switch on / Start up – Pressure build up



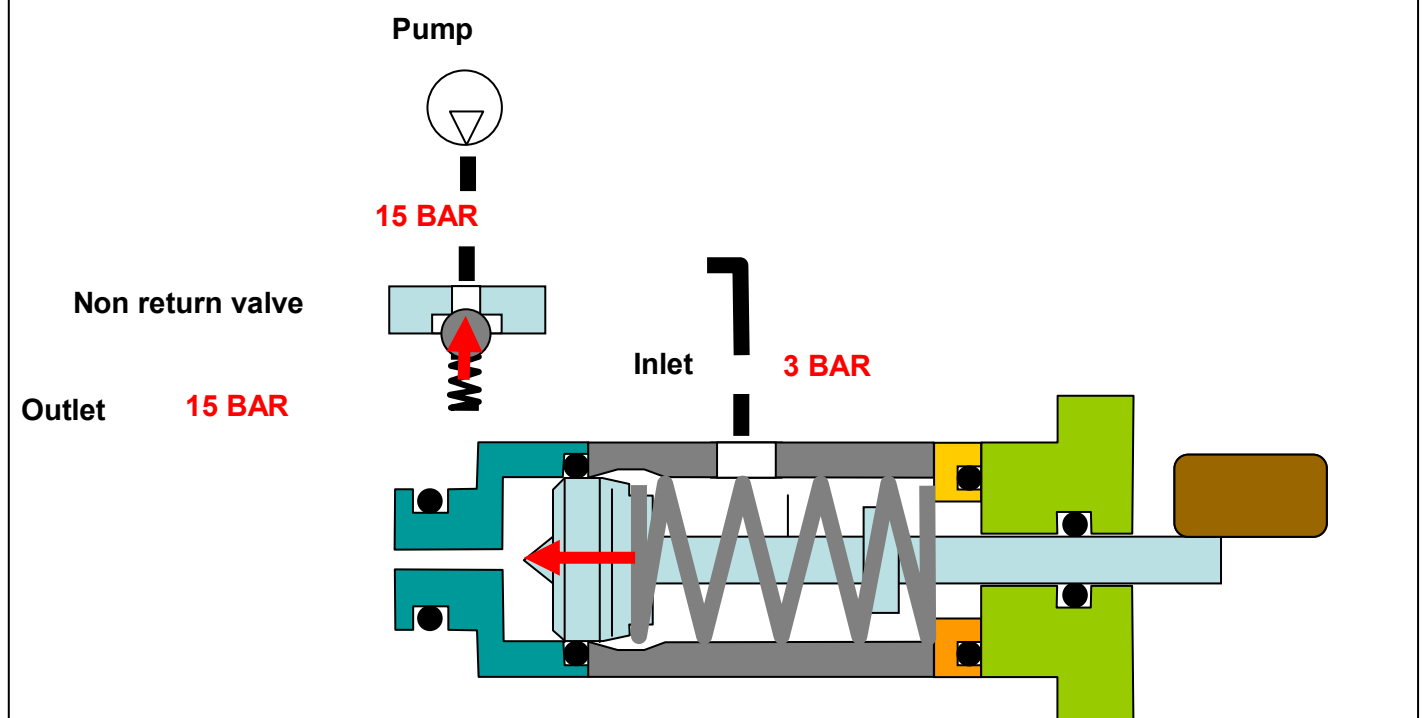
3.3 Pressure build up-opening pressure / close gun

Gun close. Pressure build up. Opening pressure. Micro switch is activated



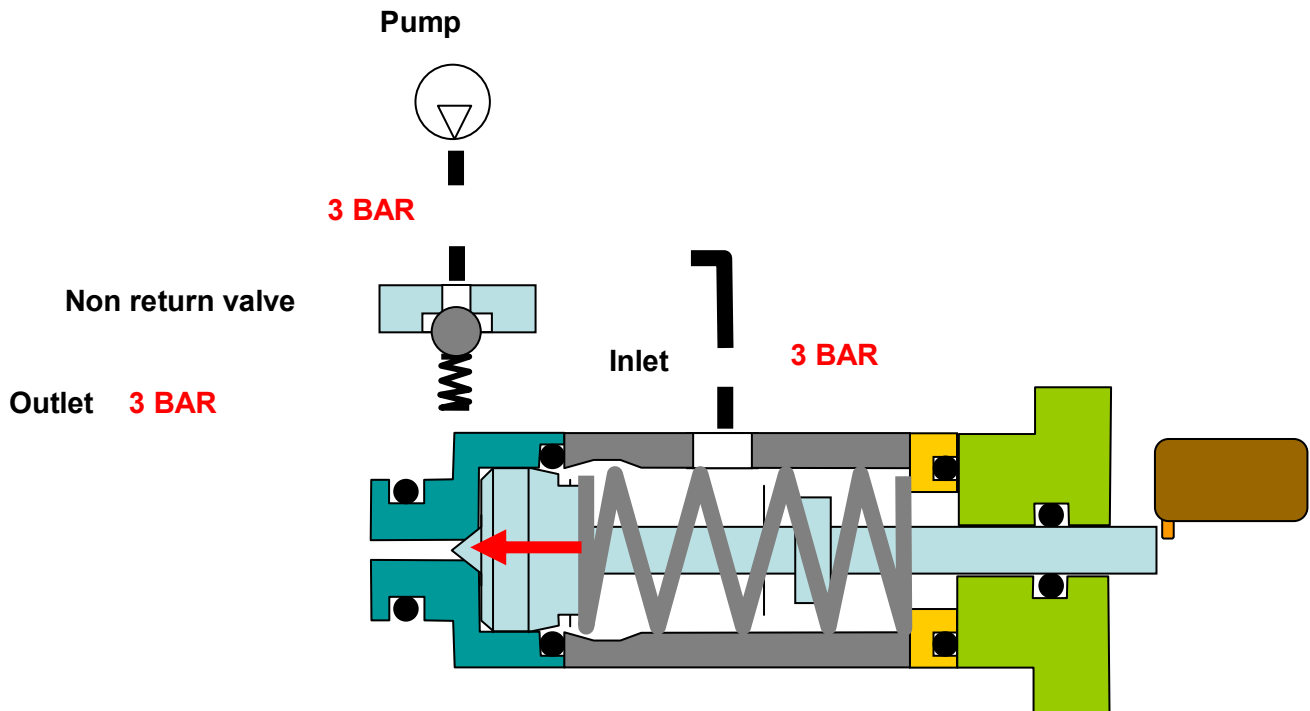
3.4 Motor stop – Standby pressure

Gun close. Motor stops. Pressure in hose decreases to standby pressure. Pump pressure is also standby pressure.



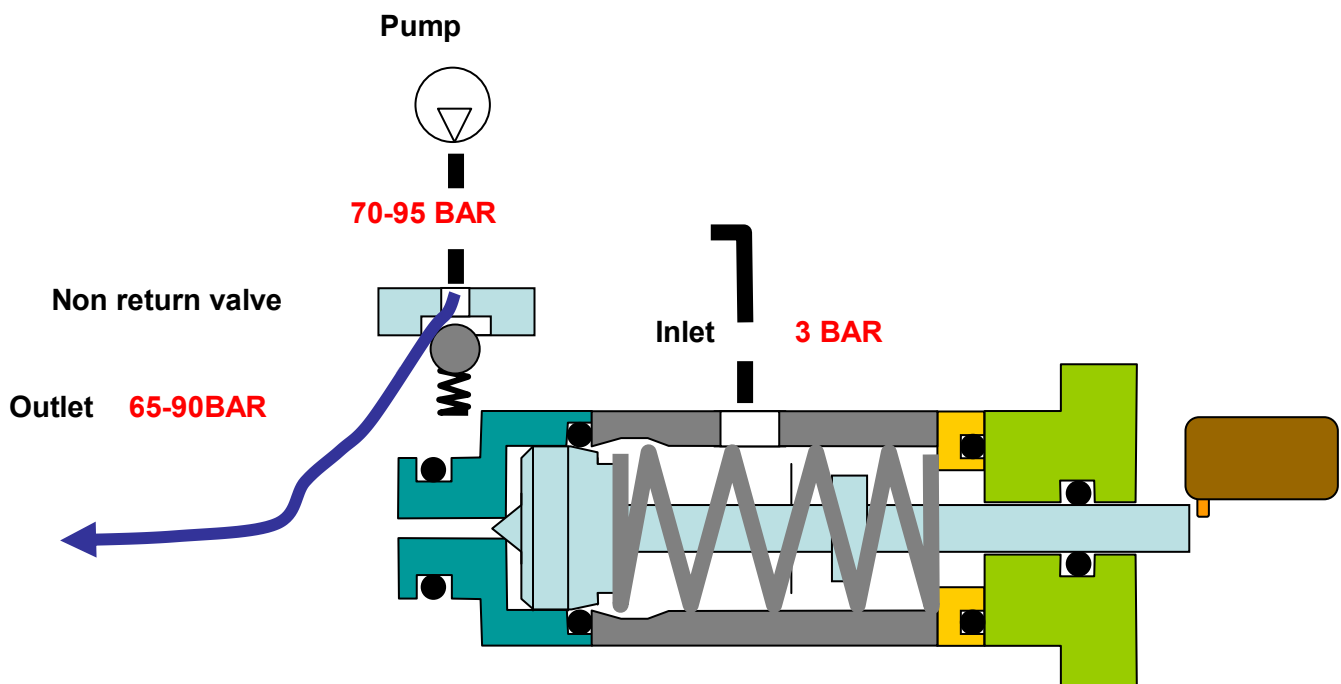
3.5 Gun is activated

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

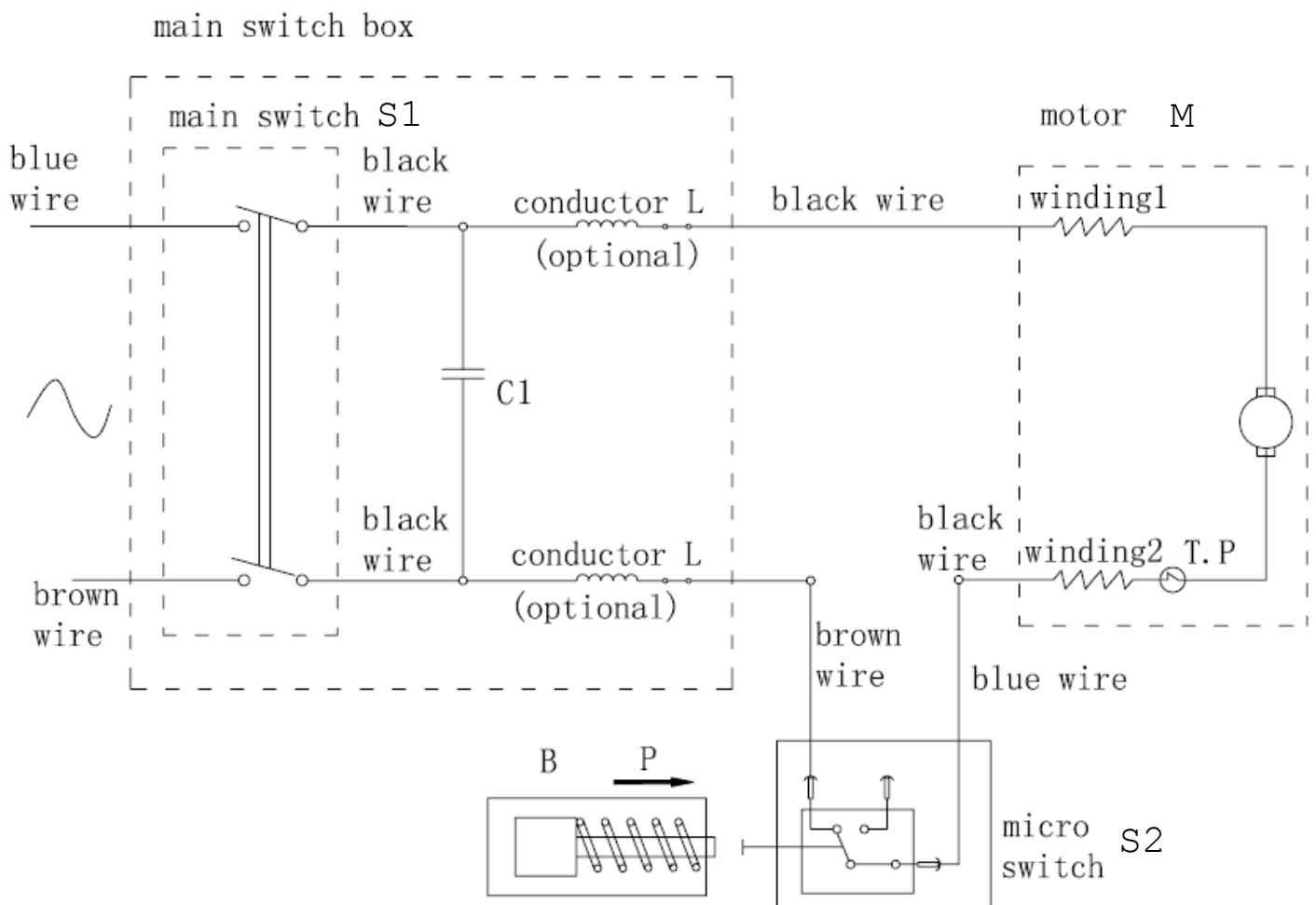


3.6 Machine run

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



Wiring and Circuit Diagram



	DANSK	ENGLISH	DEUTSCH	FRANCAIS
br	Brun	Brown	Braun	Brun
bl	Blå	Blue	Blau	Bleu
so	Sort	Black	Schwarz	Noir
C1	Kondensator	Capacitor	Kondensator	Condensateur
S1	Afbryder	Switch	Schalter	Disjunteur
S2	Enpolet afbryder/ Mikroswitch	Single-pole switch/ micro switch	Einpolig Schalter/ Micro schalter	Disjunteur monopolaire/ Micro switch
M	Motor	Motor	Motor	Moteur