

# MC DE, MC PE, MC PE PLUS - Instructions for use



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**Symbols used to mark**

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**instructions**

Before starting up your high-pressure washer for the first time, this instruction manual must be read through carefully. Save the instructions for later use.



Safety instructions marked with this symbol must be observed to prevent danger to persons.



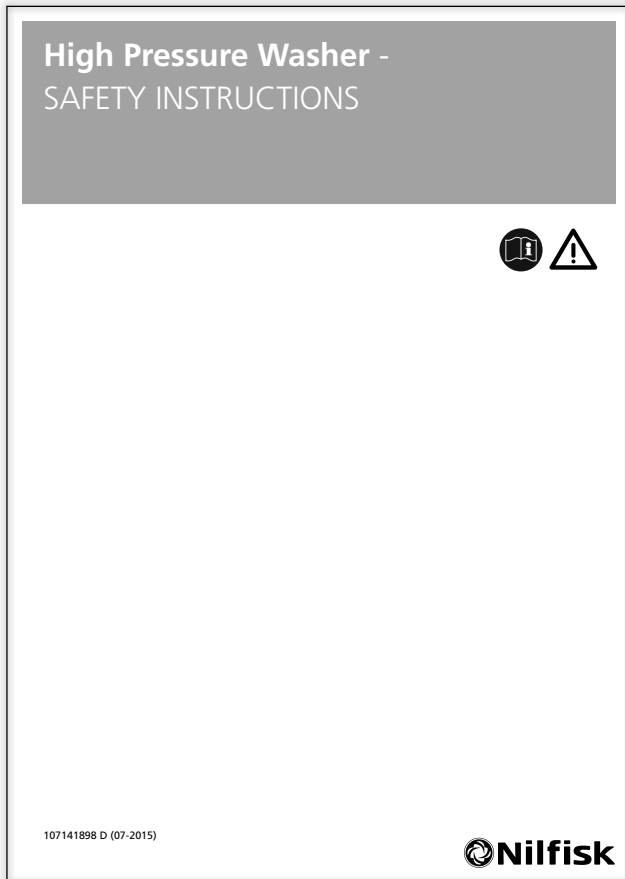
This symbol is used to mark safety instructions that must be observed to prevent damage to the machine and its performance.



This symbol indicates tips and instructions to simplify work and to ensure a safe operation.



# 1 Safety Precautions and Warnings



## 2 Description

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### 2.1 Intended use

This high pressure washer has been designed for professional use in

- agriculture
- transport industry
- construction industry etc.

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**⚠ WARNING!** Do not use combustion engine powered machines indoors unless adequate ventilation is assessed by national labour authorities.

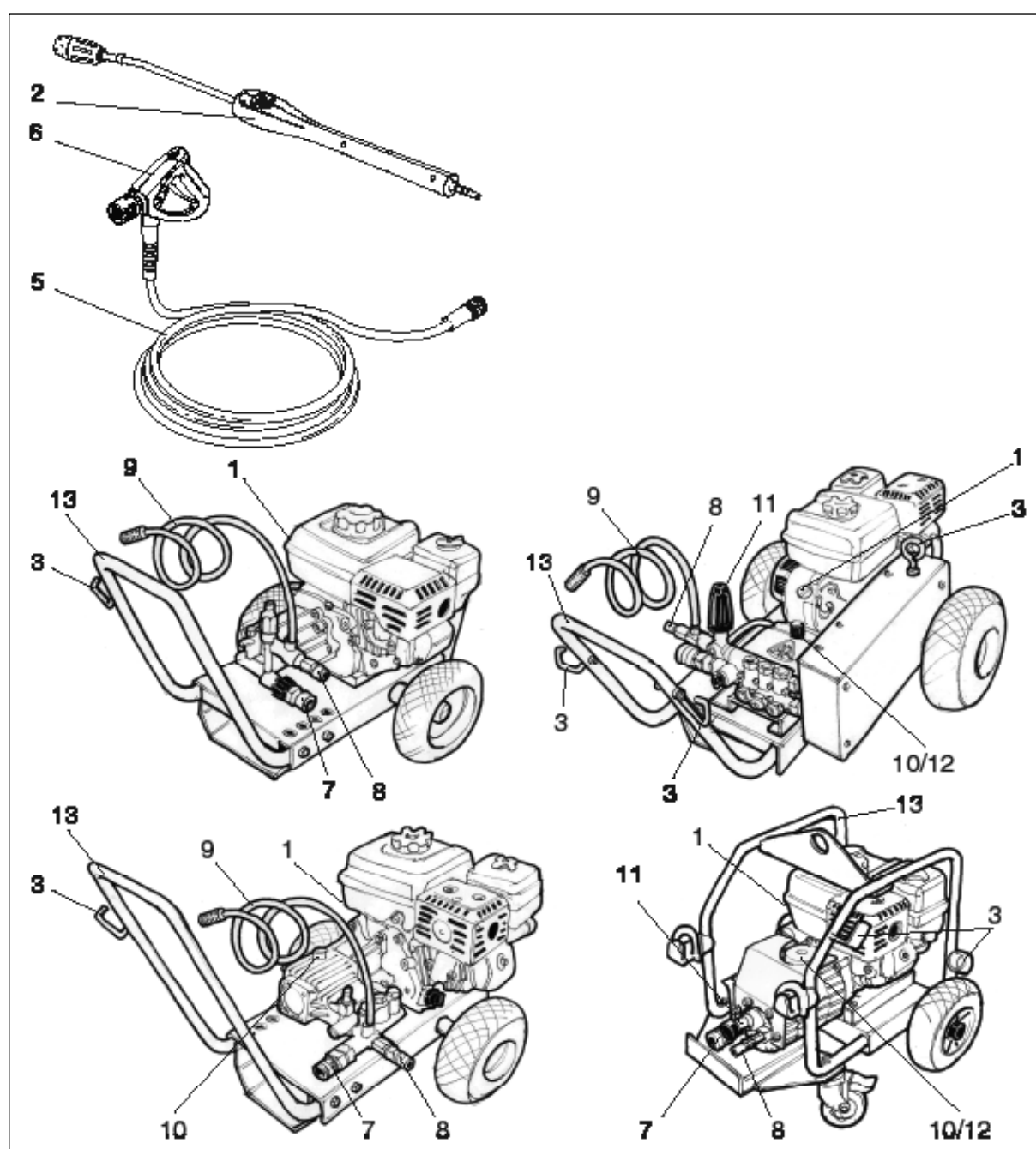
**⚠ WARNING!** Ensure, that any exhaust emissions are not in a vicinity of air intakes.

**⚠ WARNING!** Incorrect fuels shall not be used as they may prove hazardous.

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### 2.2 Operating elements



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## **EN** 3 Before starting the pressure washer

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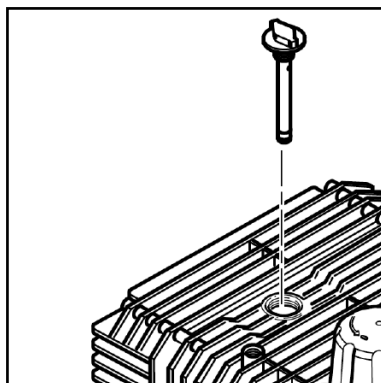
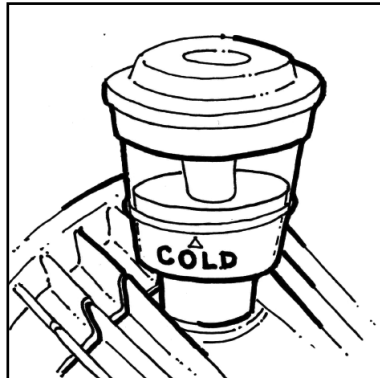
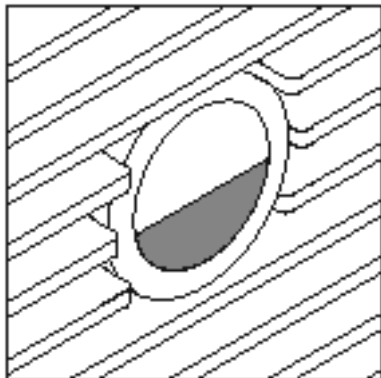
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### 3.1 Setting up the pressure washer (does not apply to MC 2C-180/700 PE / MC 3C-165/810 PE)

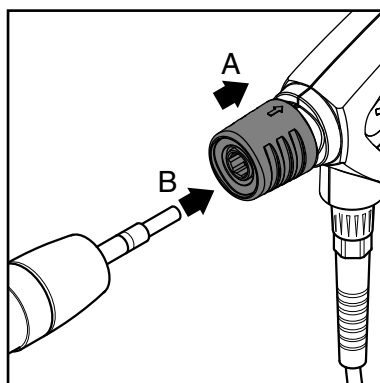


1. Before using the pressure washer for the first time, check it carefully to detect any faults or damage.
2. In the event of any damage contact your Nilfisk dealer immediately.
3. Check whether the oil level is in the middle of the oil inspection glass, oil cup or dip stick. This also applies to machines with gear.

## 4 Operation and use

### 4.1 Connections

#### 4.1.1 Connecting the lance to the spray gun



1. Pull the blue quick-release grip (A) of the spray handle backwards.
2. Insert the nipple of the spray lance (B) into the quick-release connection and release it.
3. Pull forward the spray lance or any other accessory to ensure correct mounting before starting the machine.

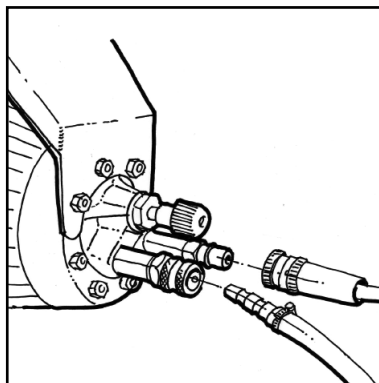
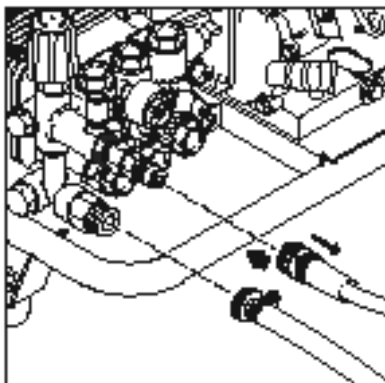
#### **NOTE!**

Always remove any dirt from the nipple before connecting the lance to the spray gun.



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#### 4.1.2 Connecting the high pressure hose and the water hose



1. Connect the high pressure hose to the high pressure inlet by means of the quick coupling. Use max. 50 m extension hose.
2. Before connecting the water hose to the washer, rinse the water hose briefly to prevent sand and other dirt from entering into the washer.
3. Open the tap.



#### NOTE!

See chapter 8.3 for required quantity of water and water pressure.

In the case of poor water quality (sand, etc.), we recommend that a fine water filter is fitted in the water inlet.

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#### 4.1.3 Fuelling



#### WARNING!

Always shut off the engine and let it cool for at least two minutes before fuelling. Avoid spilling fuel. If you do spill fuel when fuelling, do not start the engine before the spilled fuel has evaporated. If the washer is on a trailer, any fuel spills must be wiped up before the machine is started.

Never expose the machine to an open flame. Smoking is prohibited during fuelling. Also read the operating manual for the fuel engine.

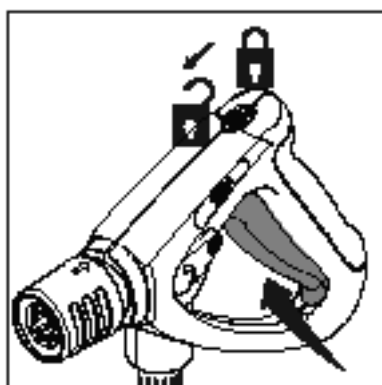
**Note:** Never operate the machine in a closed room; the exhaust fumes are dangerous.

**Follow the safety instructions in chapter 1!**

#### 4.2 Start the washer

##### 4.2.1 Switching on the washer when it is connected to a water supply

1. Start the engine. (See the operating manual for the fuel



2. Unlock the spray gun and activate it. Lock the safety catch even during short pauses.



#### NOTE!

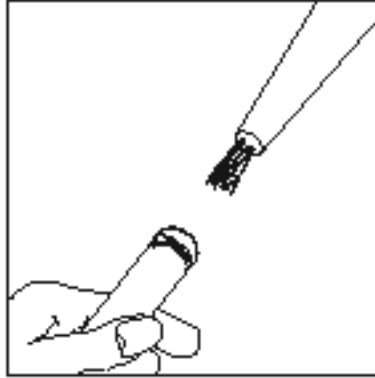
Activate the spray gun several times short intervals to vent the stem.

it requires too much power to start the engine, it can be facilitated by removing the spray lance and activate the spray gun during startup.

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**4.2.2 Switching on the washer when it is connected to open tanks (suction mode)**

1. Before connecting the suction hose to the washer, fill the hose with water.



2. Start the washer.
3. Unlock the spray gun and activate it.
4. When using this machine in suction mode, first ensure that the system has been bled of air by letting the machine run without high pressure hose and spray lance mounted until all air has escaped. On some models you need to kink

the by-pass hose and / or move the engine throttle to minimum position to achieve enough suction power.

During work breaks of more than three minutes, switch off the washer.



**NOTE!**

For automatic suction from a tank, watercourse or similar supply, the inlet hose must be filled with water before you start. The suction height depends on the water temperature. Max. suction height (see section 8.3 Technical Data) is reached with cold water (up to 8°C). With 60°C warm water, the machine must be under or at the water level.

If the water being suctioned contains particles, a suction filter must be mounted on the end of the hose. In case of risk of running sands, a sand filter must be attached.

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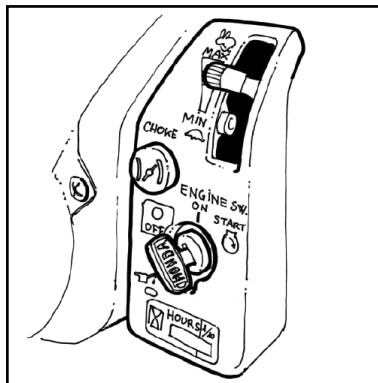
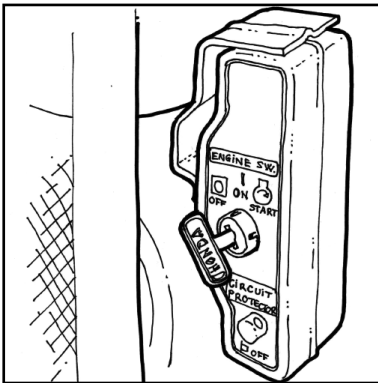
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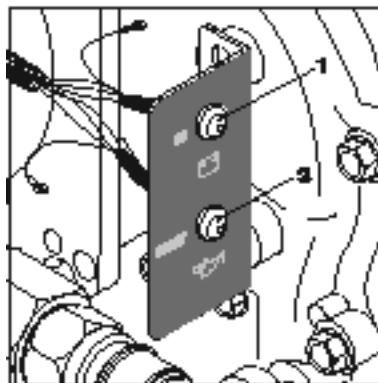
**4.2.3 Start machine**

**Start MC PE with electric starter**

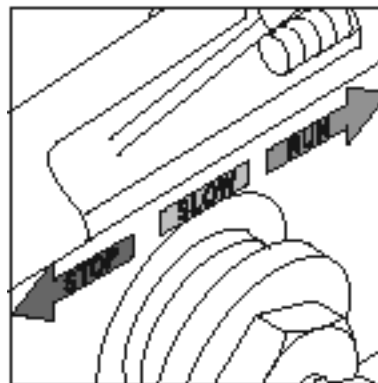


1. Start the engine by turning the key (see the operating instructions for the engine).
2. Check that the throttle lever is adjusted correctly - need to be in Run position.

**Start MC DE**



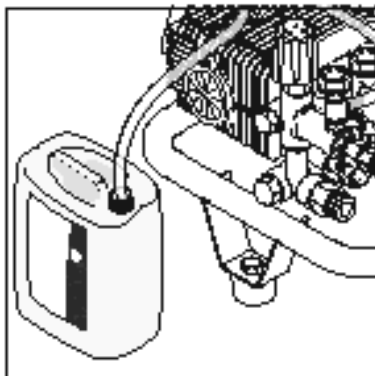
1. Switch on the ignition by pushing the ON/OFF button of the machine. The charging



- + oil light indicators will turn on.
2. Move the throttle lever to SLOW or RUN position.
  3. Push the start button until the machine starts. Now the charging + oil light indicators will turn off. If not, stop the machine immediately and contact Nilfisk service department.
  4. The machine can be started by means of the starter rope if the battery has gone flat. See manual from Yanmar.



### 4.3 Using detergents



Detergent can be added by means of the detergent injector.

1. Dilute detergent according to the manufacturer's instructions.
2. Set the pressure to the lowest setting on the lance.



**CAUTION!**  
Never allow detergent to dry on the surface to be cleaned as this may cause damage.

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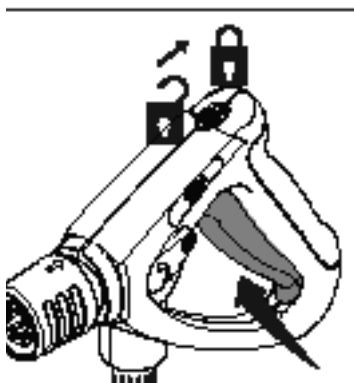
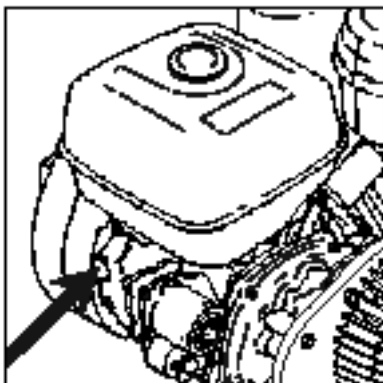
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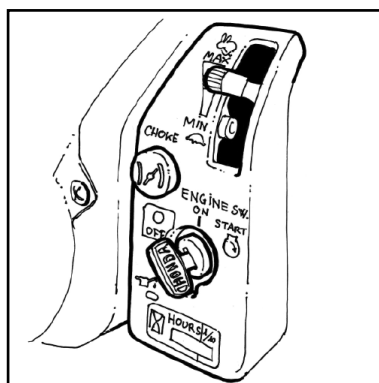
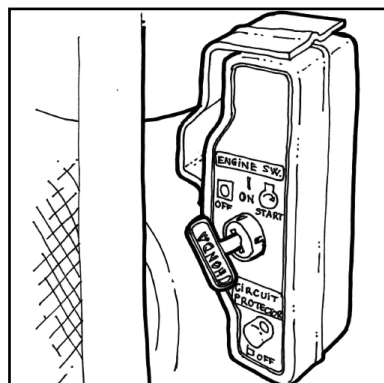
## 5 After using the washer

### 5.1 Stop the pressure washer



1. Stop the engine.
2. Close the tap.
3. Operate the spray gun until the water is depressurized.
4. Lock the safety catch.

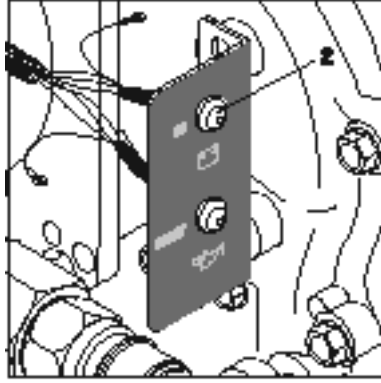
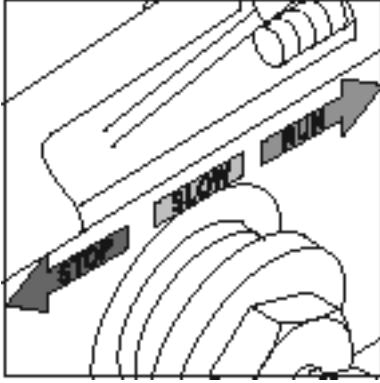
### Switching off MC PE with electric start



1. Stop the washer by moving the throttle lever to STOP position.
2. Switch off the ignition by turning the key to OFF position.

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**Switching off MC DE**



1. Stop the washer by moving the throttle lever to STOP position.
2. Switch off the ignition by pushing the ON/OFF button. The light indicators will now turn off.

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**5.2 Disconnecting supply lines**

1. Shut the fuel cock.
2. Remove the water hose from the washer.

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**5.3 Storing the washer (frost-protected)**

1. Store the pressure washer in a dry room without danger of frost.

4. Connect the suction hose to the water inlet of the washer and place it in a tank containing anti-freeze.
5. Start the washer.
6. Hold the spray gun over the tank containing anti-freeze and activate it to start suction of anti-freeze.
7. During suction operate the spray gun two or three times.
8. Lift the suction hose from the tank containing anti-freeze and activate the spray gun to pump out the remaining anti-freeze.
9. Stop the washer.

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**IMPORTANT!**

If the high-pressure washer is stored in a room with temperatures around or below 0°C, anti-freeze should be drawn into the pump beforehand:

1. Remove the water inlet hose from the washer.
2. Remove the lance.
3. Start the washer and stop it again after max. one minute.

# 6 Maintenance

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## 6.1 Maintenance plan

	weekly	every six months or 500 operating hours	as required
6.2.1 Clean water filter	●		
6.2.2 Clean high pressure nozzle			●
6.2.3 Check oil level	●		
6.2.4 Change oil - <b>Note:</b> First time after 50 hours		●	
6.2.5 Check belts (only belt driven units)		●	

Maintenance of motor according to separate operating instructions from the engine supplier

## 6.2 Maintenance work

### 6.2.1 Clean water filter

A water filter is fitted on the water inlet to prevent large particles of dirt from entering into the pump.

1. Unscrew the union nut.
2. Remove the filter and rinse it. Replace damaged filter.
3. Tighten the union nut gently, so as to avoid damaging the gasket.

### 6.2.2 Clean high pressure nozzle



A blocked nozzle causes excessive pump pressure. It must therefore be cleaned immediately.

1. Stop the washer.
2. Remove the lance.
3. Clean the nozzle with a needle.
4. Rinse the lance with water from the nozzle side.

#### **WARNING!**

Use the cleaning needle only when the spray lance has been removed.



#### **NOTE!**

The fuel engine stops automatically if the oil level is low. You can start the petrol engine again once you have added oil (does not apply to MC 2C-180/700 PE).

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**6.2.3 Checking the oil level**  
(does not apply to  
MC 2C-180/700 PE /  
MC 3C-165/810 PE)

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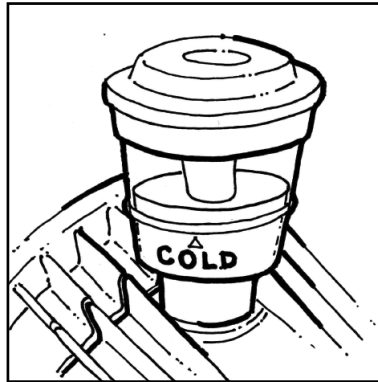
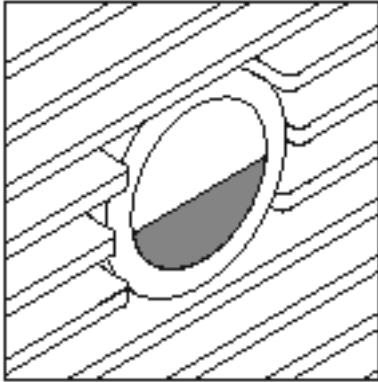
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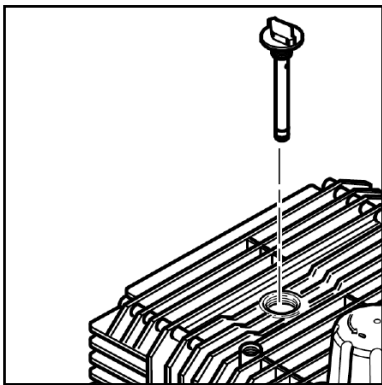
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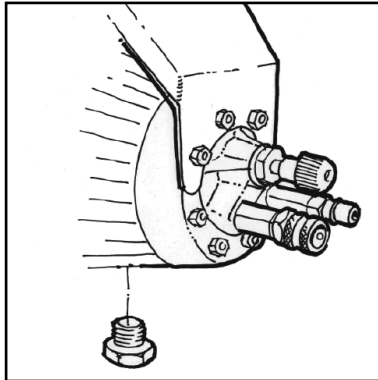
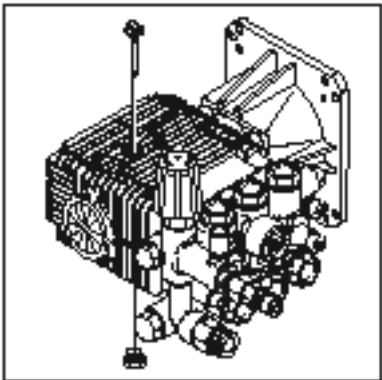
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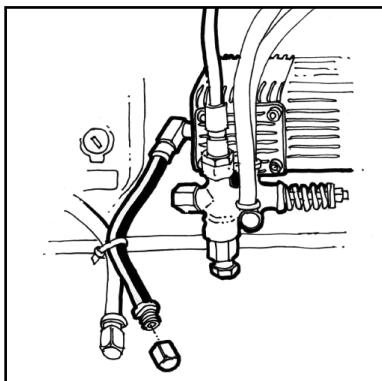
1. Check whether the oil level is in the middle of the oil inspection glass, oil cup or dip stick. Top up with oil if necessary (see section 8.3 for type of oil).



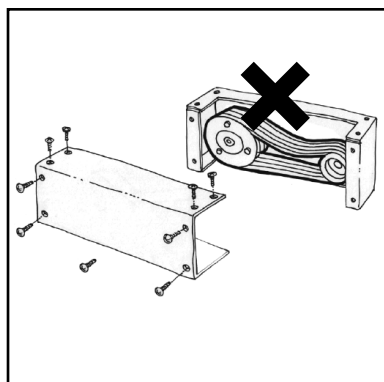
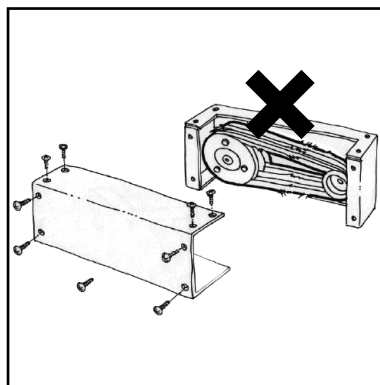
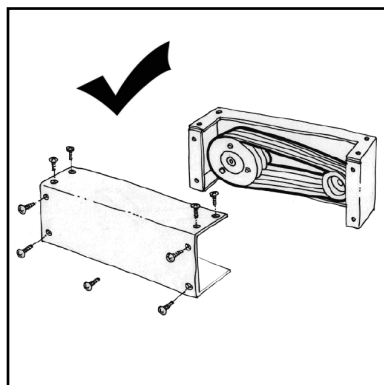
**6.2.4 Changing the pump/ gear oil** (does not apply to MC 2C-180/700 PE / MC 3C-165/810 PE)



1. Before changing the oil, allow the pressure washer to become warm.
2. Unscrew/open the plugs/lid at the top and the bottom of the pump.
3. Allow the oil to drain into a suitable container (min. 1 l capacity) and dispose of oil in compliance with regulations.
4. Mount plug at the bottom of the pump.
5. Fill pump with fresh oil (see 8.3 for oil type and quantity).
6. Check the oil level (see 6.2.3).



## 6.2.5 Check of V-belts



1. Remove the spark plug cable.
2. Dismantle the cover of the V-belts.
3. Check the belts for any damage or missing tension.
4. If required, replace the belts.
5. Mount the cover.
6. Mount the spark plug cable.

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# EN 7 Troubleshooting

Fault	Cause	Remedy
<b>Pressure drop</b>	<ul style="list-style-type: none"> <li>&gt; Air in the system</li> <li>&gt; High-pressure nozzle blocked/worn</li> <li>&gt; Pressure control on the lance is not set correctly</li> <li>&gt; Engine speed too low</li> <li>&gt; Warm/loose belts</li> </ul>	<ul style="list-style-type: none"> <li>• Vent the system by operating the spray gun several times at short intervals. If necessary, dismount the lance (see section 4.2.2).</li> <li>• Clean/replace the high-pressure nozzle.</li> <li>• Set the required working pressure.</li> <li>• Contact Nilfisk Service Department.</li> <li>• Contact Nilfisk Service Department.</li> </ul>
<b>Pressure fluctuations</b>	<ul style="list-style-type: none"> <li>&gt; Lack of water</li> <li>&gt; Pump/accessories partially frozen</li> <li>&gt; Water inlet hose is too long or its cross-section too small</li> <li>&gt; Lack of water caused by blocked water filter</li> <li>&gt; Warm/loose belts</li> </ul>	<ul style="list-style-type: none"> <li>• Open the tap.</li> <li>• Thaw machine and accessories.</li> <li>• Use prescribed size of water inlet hose.</li> <li>• Clean the water filter in the water connection (never operate the machine without water filter mounted!)</li> <li>• Contact Nilfisk Service Department.</li> </ul>
<b>In suction mode</b>	<ul style="list-style-type: none"> <li>&gt; Lack of water because max. permissible suction height has not been heeded</li> <li>&gt; Water too hot</li> <li>&gt; Pump draws in air (only possible in suction mode)</li> </ul>	<ul style="list-style-type: none"> <li>• See chapter 4.2.2.</li> <li>• See chapter 4.2.2.</li> <li>• Check that the suction set is air-tight. Repeat aeration.</li> </ul>
<b>Excess pressure</b>	<ul style="list-style-type: none"> <li>&gt; Engine's throttle control is defective (accessory)</li> </ul>	<ul style="list-style-type: none"> <li>• Give less gas/contact Nilfisk Service Department.</li> </ul>
<b>The motor does not start</b>	<ul style="list-style-type: none"> <li>&gt; Low fuel level</li> <li>&gt; Low oil level in engine</li> <li>&gt; The pump is blocked or frozen</li> </ul>	<ul style="list-style-type: none"> <li>• Open fuel cock/fill with fuel.</li> <li>• Fill with oil.</li> <li>• Thaw machine/contact Nilfisk Service Department.</li> </ul>

Fault	Cause	Remedy
<b>The motor stops</b>	<ul style="list-style-type: none"> <li>&gt; Low oil level in engine</li> <li>&gt; Low oil level in pump(does not apply to MC 2C-180/700 PE)</li> </ul>	<ul style="list-style-type: none"> <li>• Fill with oil.</li> <li>• Fill with oil</li> </ul>
<b>When a detergent injector is used</b>	<ul style="list-style-type: none"> <li>&gt; Injector is dirty or suction hose is blocked</li> <li>&gt; Detergent tank is empty</li> <li>&gt; The lance is not set to low pressure</li> </ul>	<ul style="list-style-type: none"> <li>• Clean.</li> <li>• Fill the detergent tank.</li> <li>• Adjust the lance to low pressure.</li> </ul>

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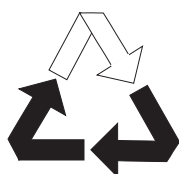
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## 8 Further information

### 8.1 Recycling the pressure washer



If the pressure washer is discarded, make it unusable immediately

1. Dismount the ignition plug.

The pressure washer contains valuable materials that should

be recycled. Contact your local waste disposal site. If you have any queries, please contact your local authorities or your nearest dealer.

### 8.2 Guarantee

Your Nilfisk product is guaranteed for 12 months from date of purchase (purchase receipt must be presented) on the following conditions:

- that defects are attributable to flaws or defects in materials or workmanship. (Usual wear and tear as well as misuse are not covered by the guarantee).
- that repairs have not been carried out or attempted by other than Nilfisk-trained service staff.
- that only original accessories have been applied.

- that the product has not been exposed to abuse such as knocks, bumps or frost.
- that the instructions in the manual have been carefully observed.

A warranty repair comprises the replacement of defective parts, but it does not cover freight and packaging charges. Besides we refer to national Sale of Goods Act.

Any **illegitimate** guarantee repair will be invoiced. (I.e. malfunctions due to **causes** mentioned in section “7 **Trouble shooting**” of the instruction manual).



## 8.3 Technical data



	MC 2C- 180/700 PE	MC 3C- 165/810 PE	MC 5M- 240/870 PE	MC 5M- 225/910 PE PLUS	MC 5M- 250/1000 PE	MC 5M- 250/1050 PE PLUS	MC 7P- 220/1120 PE PLUS	MC 5M- 195/1000 DE
Working pressure	180	165	240	225	250	250	220	195
Water flow (max)	700	810	870	910	1000	1050	1120	1000
Water flow Q IEC	650	750	800	840	930	1000	1010	950
Max. water inlet temperature	60	60	60	60	60	60	60	70
Min./max. water inlet pressure	1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10
Dimensions (LxWxH)	762 x 546 x 603	762 x 546 x 603	1041 x 546 x 635	1067 x 686 x 660	1041 x 546 x 635	1067 x 686 x 660	800 x 690 x 810	800 x 565 x 1010
Noise power level, LWA dB(A)	95.1	93.2	91	90.8	93.2	93.4	91.9	105
Thrust	31.1	31.9	42.3	42.9	51.8	54.4	52.7	45
Suction height, primed (at max. 8°C)	1.0	1.0	2.5	2.5	2.5	2.5	2.5	1.0
Oil quantity in pump/ gear	-	-	0.5	0.4	0.5	0.5	1.1	0.56/0.27
Oil quantity in motor	0.5	1	1	1	1	1	1	1.65
Oil type (motor/gear)	SAE 15-40							
Oil type (pump)	SAE 15-40							
Vibrations	< 2,5 m/s <sup>2</sup>							

We reserve the right to make alterations.



**8.4 EC Declaration of Conformity**

We,

Nilfisk A/S  
Kornmarksvej 1  
DK-2605 Broendby  
DENMARK



Hereby solely declare, that the product:



Product	Description	Type
HPW - Professional - Mobile	Petrol - diesel driven	MC 5M *.* DE, PE, PE PLUS MC 2C */* PE MC 3C */* PE MC 7P */* PE PLUS



Is in compliance with the following standards:



Id and Version	Title
EN 60335-1:2012+A11:2014	Household and similar electrical appliances - Safety - Part 1: General requirements
EN 60335-2-79:2012	Household and similar electrical appliances - Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners
EN 61000-6-1:2007	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
EN 55012:2007+A1:2009	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to restriction of hazardous substances



Following the provisions of:

Machinery Directive 2006/42/EC  
EMC Directive 2004/108/EC  
RoHS Directive 2011/65/EC  
Noise Emission Directive 2000/14/EC – Conformity assessment procedure according to Annex V.

- Measured noise level: 77-92 dB(A)
- Guaranteed noise level: 90-105 dB(A)

Hadsund 09-09-2015 Anton Soerensen  
Senior Vice President – Global R&D

Place	Date	Name, Title	Signature
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