Attention!
Before first commissioning, read these operating instructions thoroughly and observe the safety provisions under all circumstances!
Dear customer
thank you for purchasing this quality product from our company.

For many decades, we have been a producer of hand-held and back-carried gas powered motor devices. Each of our motor devices benefits from this experience in detail today as well.

State-of-the-art production materials in connection with our know-how warrant a long service life and high utilisation value of the motor device.

The motor devices of this model line are particularly high-quality cut-off machines of German production and designed specifically for the high demands of professional users. A newly developed single-cylinder two-stroke high-performance engine with stationary nikasil-coated cylinder in proven four-channel technology for great performance at low fuel consumption and the latest exhaust cleaning technology warrant high utilisation value of the motor-driven device.

Maintenance-free electronic ignition, health-protecting anti-vibration system, patented twin-pipe suction procedure, vibration system for particularly easy interim emptying of the air filter during work, optionally usable water connection with water supply to the cutting disc to reduce dust when working, smart solutions with electronic carburettor control for simple starting and ergonomic design and extremely compact build ensure excellent operating comfort and facilitate daily work with the motor device.

The safety equipment corresponds to the latest state of the art and meets all nationally and internationally relevant safety provisions. Among others, it comprises:
- One-touch stop button
- Throttle control lock
- Electronic speed limiter
- Protective device for the cutting disc
- Motor stop facility for maintenance purposes

Before first commissioning, read these operating instructions thoroughly and always observe all safety provisions and instructions for action.
If you have any further questions after reading these operating instructions, contact your specialist vendor.

Observe the maintenance guidelines closely to ensure the long service life of your equipment
Packaging and disposal
Please keep the original packaging in order to protect the equipment against transport damage in case you ever need to ship or transport it. If the packaging materials are no longer required, they must be disposed of properly in accordance with applicable local regulations. Cardboard packaging materials are raw materials which can be recycled or reused. At the end of the equipment’s service life, please make sure that you dispose of it in accordance with the local provisions.

Patents
The following patents are pending:
- PCT/EP 2011/067574 (separate lubrication)
- US13/331,898 (airbox)

The following patents have been granted:
- US2010206278A1
- US2009007435A1
- US2010000846A1
- EP2011594A2
- EP2011991A2
- EP2011992A2

Registered brands and trademarks
solo® and iLube® are registered brands of SOLO Kleinmotoren GmbH. Any other product and company names named in these operating instructions may be registered brands or trademarks of the respective manufacturer. Use of these names by third parties for their purposes may injure the rights of the manufacturer. The fact that the ® or ™ sign is missing does not mean that the designation is a free brand name.

Reservation of changes
In the interest of continuous further development of our motor devices, we must reserve changes to the delivery scope in form, technology and equipment. For that reason, no claims can be accepted with reference to text and illustrations in this manual.
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These operating instructions are an integral part of the motor device.

⚠️ They contain important information and instructions for handling the motor device. Always follow any specified safety regulations and instructions, as they are a prerequisite for ensuring that you are working safely with the equipment.

ℹ️ These operating instructions must be kept available at the place of use of the equipment at all times, and they must be read carefully by everybody who works on or with the equipment (including for maintenance, care and repairs).

These operating instructions must only be used as operating instructions for the motor device 880/881. Any utilisation of the contents (text and graphics illustrations) – even in excerpts – without our prior written consent shall be forbidden and may be prosecuted.

1 Information about these operating instructions

1.1 Notational conventions used in the operating instructions

Text highlights
- Underlined text marks interim headlines.
- Text in italics marks advice and notes that facilitate use of the motor device for the user.

1 Numbered text with a black background marks main chapter headlines.
1.1 Numbered text with a grey background marks main subchapter headlines.

Frames mark especially highlighted sections.

Structure
The operating instructions are structured by numbered main and subchapters. The table of contents on page 3 shows an overview of the structure.

Header
To make it easier for the user to find the chapters, the header names the main chapter to which the content on the respective page belongs.

Pictures and diagrams
Some graphical illustrations in these operating instructions are schematic illustrations or principle illustrations and may not show exactly your device model. The conveyed contents, however, are binding in any case.

2 Warning, instruction and notice icons

Important: If one or several icons in these operating instructions are centred and directly below a chapter header the notice applies for the entire chapter.
Warning, instruction and notice icons used in the operating instructions and on the equipment:

- **Danger!** Failure to comply with the instructions could cause accidents with potentially life-threatening injuries.
- **Caution!** Failure to comply with the instructions could result in damage to the equipment or other material damage.
- Carefully read the operating instructions. This applies before taking the equipment into operation and before any cleaning, maintenance or assembly work.
- Always wear the prescribed clothing. ➔ Chap. 3.3, page 7
- Always wear sturdy shoes with good grip.
- Wear safety gloves. This applies to all work with or on the equipment.
- Before starting the engine, put on helmet, ear defenders and a visor.
- Switch off the engine!
- Smoking is prohibited anywhere near the power tool and in the location where it is refuelled!
- Keep the power tool and fuel canisters away from naked flames.
- **Attention: Danger of poisoning!** - The power tool generates exhaust gases.
  - Petrol vapours are toxic.
  - Dangerous dust emissions when working.
- **Attention: Kickback!**
- Notes in chap. 7.2 as of page 26 must be observed under all circumstances!
- **Attention: Danger of fire from sparks.**
- Wear breathing protection.
- Do not use circular saw blades.
- Never continue work with damaged cutting discs.
- **Only use cutting discs approved for a speed of ≥ 4.450 min⁻¹.**
- **Vibrator dial for interim emptying of the air filter.** ➔ Chap. 8.4, page 32
- **Noise level LWA = 110 dB(A).**
- **iLube® = Smart lubrication (separate lubrication, model 881-12 and 881-14)**
- Fuel tank. ➔ Chap. 5.5, as of page 17
- Oil tank (green cap, model 881-12 and 881-14) ➔ Chap. 5.5, as of page 17
- Starting notes. ➔ Chap. 6, as of page 23
3 Safety provisions

3.1 Correct use

This power tool must only be used to cut/shorten metals (hot cut) and mineral materials, such as concrete (cold cutting), each with the cutting discs approved for this material and only for the working situation indicated in chap. 7 on page 25.

For specifically trained users in rescue missions, other approved cutting discs are also offered that can be used to cut various composites. These special applications are only permitted to specifically trained users. This power tool must only be used for outdoor work.

Use of this power tool for any other purpose, such as sawing of wood and to remove/grind off a material with the side surfaces of the separating disc is forbidden. Impermissible cutting tools, such as saw blades or knives, must not be installed at the motor device instead of the cutting disc.

3.2 General safety notes

Before first commissioning, read these operating instructions thoroughly and keep them safely. They must be kept available at the place of use of the equipment at all times, and they must be read by everybody who works on or with the equipment (including for maintenance, care and repairs).

Use this power tool with special care. Work with and at the power tool comprises extreme risks when proceeding carelessly and improperly. They are specifically based on the high speeds of the cutting disc and the large forces and torques that the power tool can achieve.

Work with and at the power tool always must be performed carefully and with the greatest care towards all possible dangers and any possible situations that may occur. Never perform any work processes that you are not ready for or the risks of which you cannot entirely asses. If you are still unsure after studying these operating instructions, ask a specialist for help.

The ignition unit of this power tool generates an electromagnetic field in operation. This field may affect the function of pacers under certain conditions. Persons with a pacer must consult their physician and the pacer manufacturer before using this power tool.

General information on vibrations: The following symptoms may occur in case of special personal conditioning, caused by frequent vibration at fingers, hands or wrists: The body parts falling asleep, tickling, pain, stabbing, changes of the skin tone or skin. If such symptoms are found, see a physician.

Non-observance of the safety notes may be potentially fatal. Comply with the accident prevention provisions of the professional associations.

- For any accidents that may occur, a first aid kit must be present at the workplace at all times. Material that has been removed must be refilled at once.
- Danger of fire from sparks! When working close to easily flammable objects or vegetation, a fire extinguisher must be provided.
- If you are working with this kind of power tool for the first time, have secure handling shown and explained to you by a specialist.
- Children and teens below 18 years of age must not work with this power tool; this does not include youths older than 16 who are trained under supervision.
- The power tool generally must be operated by a person – also when starting up. Keep persons and animals away from the work area. If a person or animal approaches, the power tool must be stopped at once. The user is responsible for any injury and property damage he causes.
- This power tool must only be lent or passed on to persons who are familiar with this type, its operation and the operating instructions. Always include these operating instructions.
- Only work with this power tool when you are in good shape, rested and healthy.
- Persons under the influence of alcohol or drugs, including prescription drugs, are not allowed to use this machine, as their ability to quickly react to potential danger may be impaired.
• If materials that may contain asbestos or other toxic substances are to be processed, inform the relevant authority first. Work must only be performed upon approval and only under supervision and compliance with the required safety measures.

• When cutting pre-tensioned and steel-reinforced concrete pillars, observe all instructions and standards that the respective authorities or component manufacturers have stipulated. Cutting of reinforcement bars must be performed in the prescribed order and under consideration of the relevant safety provisions.

• Never alter, change or modify any safety equipment or functional assemblies of this machine.

• Danger of accidents! Only use this machine if it is in good, safe condition! Always check the machine prior to use.

• Only use those accessories and attachments that have been supplied by us and that are expressly approved for attachment to this machine. Only cutting discs approved for this machine must be used as cutting tools.

• Reliable operation and safety of this machine also depend on the quality of the spare parts used. Use only genuine spare parts. Original spare parts are identical with genuine production parts and guarantee best quality in material, dimensions, function and safety. Original parts and accessories are available from your specialist dealer. Your dealer has been supplied with appropriate documentation to determine the correct parts. Your dealer is frequently supplied with updates about improvements to the equipment. Please note that the use of non-original parts will void your warranty.

• Always store the machine in a safe place and in such a way that it will not pose any danger. Stop the engine. Never let the machine run unsupervised!

Persons who disregard safety instructions, operating or maintenance instructions are liable for any damage or consequential losses.

3.3 Prescribed work clothing / PPE (Personal Protection Equipment)

In order to prevent injuries, please make sure that you wear the prescribed clothing and protective equipment.

Clothes should be tight-fitting (no lapels), but not hindering.

When performing any work, wear a working suit of firm materials with sufficient flame inhibition that cannot inflame by sparks flying (materials of leather, cotton after flame-inhibiting treatment or heavy close-meshed linen fabrics).

Check the information in the work clothes and ensure that no easily flammable materials and no easily melting materials like polyester or nylon are contained in the clothes. The working clothes must never be contaminated with flammable substances such as petrol or similar.

Never wear scarves, ties, jewellery or other clothes that may get caught in the cutting disc, at objects in the environment or the power tool. Tie back long hair and secure it under a helmet.

• Wear a protective helmet during any work.

• Use personal hearing protection.

• Eye/face protection is mandatory pursuant to ANSI Z 87.1.

• Wear firm safety shoes with steel toes and a good grip.

• Wear protective gloves with non-slip palms.

• Use breathing protection for dry cutting as protection from dust.
Safety provisions

3.4 When fuelling up

Petrol is highly flammable. Keep distance from open fire and do not spill fuel. Do not smoke at the workplace or at the site of fuelling!

- Always switch off the engine before fuelling.
- Danger of fire! Never refuel with the engine still hot!
- Always carefully open the tank cap so that any overpressure present can reduce slowly and no fuel will splash out.
- Prevent skin and eye contact with mineral oil products. In case of eye contact, rinse at once with lots of clear water. In case of persistent irritation, see a doctor immediately!
- Regularly change and clean protective clothes.
- Avoid breathing in fuel vapour.
- The refuelling site should be well ventilated.
- Avoid any soil spillage of fuel or oil (protection of the environment). Use a suitable mat.
- Immediately clean any spilled fuel on the machine. Change contaminated clothing without delay.
- Always tighten the fuel tank cap firmly by hand without using any tools. Tank caps are equipped with an overturning protection and must be turned closed until a clear "skipping".
  The fuel tank cap must not be able to work itself loose as a result of the vibrations of the engine.
- Danger to life from burns! Observe leaks. Do not start up and work when fuel is escaping.
- Fuels and oil must only be stored in properly and correctly labelled containers.

3.5 In transport

- Before carrying the power tool (even across short distances from one working area to the next), always switch off the engine and wait until the cutting disc has stopped. Carry the power tool by the top handle and have the cutting disc point backwards.
- Danger of burns! Do not touch the hot muffler.
- Never carry or transport the power tool with the cutting disc running.
- To avoid spilling of fuel and oil and to prevent damage, the power tool must be secured against tipping when transporting it in vehicles. Check the tanks for fuel and oil for tightness. We recommend that the tanks be emptied before transport.
- Empty the tanks before shipping.

Advice: We recommend that you keep the original packaging in order to protect the equipment against transport damage in case you ever need to ship it or transport it.
3.6 During assembly, cleaning, maintenance and repair

- The power tool must not be assembled, maintained, repaired or stored in the vicinity of naked flames.
- Before assembly, cleaning, maintenance and repair, always turn off the engine; the stop dial must be set to "0" and the cutting disc must have stopped. Only the idle speed setting must be performed with the engine running.
- Wear protective gloves for any work.
- The power tool requires regular maintenance. Only perform such maintenance and repair work on your own that are described in these operating instructions and that you consider yourself skilled for. Any other work must only be performed by specialist workshops authorised by us.
- Danger of burns! Do not touch the muffler while it is still hot – not even for maintenance or to check it for tight fit.
- Only perform repairs with original spare parts.
- Danger of accident and injury! No modifications are permitted at the power tool, because this may impair safety!

3.7 Before start-up

Before any start, check the entire power tool for operationally safe condition. In addition to the notes in the operating and maintenance notes (chap. 8, page 29), check the following items:

- Stop dial and one-touch stop button must be easy to operate.
- The throttle control must move freely and return automatically to the idle position. It must not be possible to operate the throttle control without pushing (unlocking) the throttle control lock (throttle control locked).
- The cutting disc must be attached firmly to the spindle.
- Danger of fire! Ignition cable and spark plug connector must be firmly in place. Loose connection can result in sparks which could ignite any escaping fuel/air mixture!
- In case of irregularities, recognisable damage, improper settings or limited function, the power unit must not be started. In such cases, have the power tool inspected by specialist workshops authorised by us.

3.8 When starting

- Only use the power tool if it is in completely assembled condition.
- Keep at least 3 metres distance from the fuelling site when starting. Never start the machine in closed rooms.
- Observe secure and firm hold when starting up. Always start up on level ground and securely hold the power tool.
- Perform the starting process as described in chap. 6 on page 23.
- Check the idle setting after starting. The cutting disc must stand still in idle mode.
3.9 During work

In addition to the safety provisions already listed, the following safety provisions also apply when working with the motor device:

- Danger of poisoning! Once the engine is running, the power tool produces toxic exhaust that may be invisible and odourless. Never start the power tool in closed rooms. Special danger also applies in narrow situations, troughs or ditches. Only work here when it is absolutely certain that there is sufficient air exchange and that no toxic gases may accumulate.

- Increased danger of fire! Do not smoke at the workplace – not even in the proximity of the power tool.

- Secure the workplace against accidental access by third parties, e.g. with warning signs. Only persons involved and wearing protective clothes must be present within 30 metres around the working area.

- Check the site of deployment for possible dangers.
  - Spark formation during cutting means that work must never be performed close to potentially explosive gases of liquids, or easily flammable objects.
  - No electrical lines must be placed in the area to be cut.
  - Objects that may fall off or topple over during work must be secured or removed from the working environment first.
  - Prepare the workplace so that secure backing away is possible.

- The work piece to be cut must be free of foreign bodies such as screws, nails or stones.

- When working in residential areas, observe the noise protection provisions.

- Work carefully, considerately and calmly and do not endanger any other persons.
  - Ensure good sight and light conditions.
  - Always remain within calling distance of other persons who may administer first aid in emergencies.
  - Put in working breaks in time.
  - Be attentive towards possible danger sources and take the corresponding preventive measures. Consider that use of hearing protection limits perception of sounds. Signal sounds, calls, etc. that announce danger may also be missed.
  - Observe tripping dangers and obstacles. Never work on unstable undergrounds.
  - Always hold on to the power tool with both hands and always ensure a safe and firm stance.
  - Never cut standing on a ladder.
  - Guide the power tool so that no body part is located in the extended swivel range of the cutting disc.
  - Only process the workpiece to be cut with the cutting disc running; never touch the floor or other objects with the cutting disc running.
  - Do not use the power tool to lever off and shovel away objects.

- Switch off the engine when the power tool starts to behave noticeably differently.

- Danger of burns! Do not touch the muffler while it is still hot.
  Danger of fire! Muffler radiates enormous heat. Never put the hot power tool into dry grass or on flammable objects.

- Danger of hearing damage and burns!
  Never work with defective muffler or without muffler.
## 4 Power tool description

### 4.1 Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>880-12</th>
<th>881-12</th>
<th>880-14</th>
<th>881-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>Single-cylinder two-stroke motor, four-channel flushing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine capacity</td>
<td>cm³</td>
<td>81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bore Ø / stroke</td>
<td>mm</td>
<td>52 / 38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. power at rpm</td>
<td>kW / 1/min</td>
<td>4.0 / 9,300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. torque at rpm</td>
<td>Nm / 1/min</td>
<td>4.8 / 7,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. permissible speed</td>
<td>1/min</td>
<td>9,500 ±200 (no load with cutting disc)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Idling speed</td>
<td>1/min</td>
<td>2,600 ±200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clutch engagement speed</td>
<td>1/min</td>
<td>4,800 ±200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>l</td>
<td>0.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil tank capacity</td>
<td>l</td>
<td>---</td>
<td>0.32</td>
<td>---</td>
</tr>
<tr>
<td>Fuel mix ratio oil: petrol</td>
<td></td>
<td>1:50</td>
<td>---</td>
<td>1:50</td>
</tr>
<tr>
<td>Electronically controlled separate lubrication</td>
<td>---</td>
<td>✓</td>
<td>---</td>
<td>✓</td>
</tr>
<tr>
<td>Fuel consumption at max. power (ISO 7293)</td>
<td>kg/h</td>
<td>1.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific consumption at max. power (ISO 7293)</td>
<td>g/kWh</td>
<td>460</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carburettor, with primer</td>
<td>Position-independent, electronically controlled</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air filter</td>
<td>Paper / fleece</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition</td>
<td>Electronic digital ignition with index</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutting disc Diameter &quot; / mm</td>
<td>12 / 300</td>
<td>14 / 350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bore diameter</td>
<td>20 mm or 1&quot;</td>
<td>20 mm or 1&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tightening torque of the attachment screw</td>
<td>Nm</td>
<td>30 ±2</td>
<td>30 ±2</td>
<td></td>
</tr>
<tr>
<td>Minimum flange outer diameter</td>
<td>mm</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Spindle diameter</td>
<td>mm</td>
<td>20</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Maximum spindle rpm</td>
<td>1/min</td>
<td>4,450</td>
<td>4,450</td>
<td></td>
</tr>
<tr>
<td>Cutting depth, max.</td>
<td>mm</td>
<td>100</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>Dimensions Height / width / length</td>
<td>mm</td>
<td>430 / 267 / 750</td>
<td>430 / 267 / 775</td>
<td></td>
</tr>
<tr>
<td>Weight without tank content, without cutting disc</td>
<td>kg</td>
<td>10.1</td>
<td>10.4</td>
<td>10.2</td>
</tr>
<tr>
<td>Sound level</td>
<td>dB(A)</td>
<td>98</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound power level</td>
<td>dB(A)</td>
<td>108</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weighted effective acceleration</td>
<td>m/s²</td>
<td>4.5 / 6.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 In determining the following values regarding the acceleration of vibrations and sound, the different operating conditions were weighted in accordance with the current standards.
2 Insecurity K purs. to EC directive 2006/42/EC: 2.5 dB(A)
3 Insecurity K purs. to EC directive 2006/42/EC: 2 m/s²

### 4.2 Type plate

![Typ 08](image)

- **a**: Type designation
- **b**: Serial number
- **c**: Bar code
- **d**: Year of build
### 4.3 Scope of delivery

- Basic device
- Cutting disc
- Spindle adapter disc for cutting discs with 1” inner bore
- Tool: Combination tool (spark plug spanner with screwdriver), blocking pin and additional small screwdriver
- These operating instructions (incl. EC Declaration of conformity: ➔ Chap. 11, page 39)

### 4.4 Device views and important operating and function parts

**View: Profile right**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cutting disc</td>
<td>16. Starter handle</td>
</tr>
<tr>
<td>2</td>
<td>Protective cowl</td>
<td>17. Stop dial / one-touch stop button</td>
</tr>
<tr>
<td>3</td>
<td>Gip for protective cowl adjustment</td>
<td>18. Fuel tank cap</td>
</tr>
<tr>
<td>4</td>
<td>Top handle</td>
<td>19*. Oil tank cap, green (only for 881-12 and 881-14)</td>
</tr>
<tr>
<td>5</td>
<td>Cowl</td>
<td>20. Primer</td>
</tr>
<tr>
<td>6</td>
<td>Rear handle</td>
<td>21. Decompression valve</td>
</tr>
<tr>
<td>7</td>
<td>Twin-pipe intake openings</td>
<td>22. Idle stop screw &quot;T&quot;</td>
</tr>
<tr>
<td>8</td>
<td>Spark plug cover</td>
<td>23. Carburettor adjustment screws &quot;L&quot; and &quot;H&quot; (for specialist workshops only)</td>
</tr>
<tr>
<td>9</td>
<td>Throttle control lock</td>
<td>24. Water coupling connection (wet cutting)</td>
</tr>
<tr>
<td>10</td>
<td>Throttle control</td>
<td>25. Muffler (exhaust)</td>
</tr>
<tr>
<td>11</td>
<td>Cutting disc attachment screw</td>
<td>26. Standing base</td>
</tr>
<tr>
<td>12</td>
<td>Cutting disc blockage opening</td>
<td>27. Screen filter coupling adapter of the water supply line</td>
</tr>
<tr>
<td>13</td>
<td>Ribbed belt tensioning screw</td>
<td>28. Valve lever for water supply</td>
</tr>
<tr>
<td>14</td>
<td>Ribbed belt cover</td>
<td>29. Vibration dial</td>
</tr>
<tr>
<td>15</td>
<td>Type plate</td>
<td>30. Water supply line (wet cutting)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31. Starter and fan housing with cooling air openings</td>
</tr>
</tbody>
</table>

* model-dependent
4.5 Throttle control lock and throttle control

Release of the throttle control (10)
- Grasp rear handle (6) with the right hand. The throttle control lock (9) is operated with the palm.
  ➔ The throttle control (10) is released.

4.6 Function parts for starting

Starter handle (16) and starter rope; ➔ Chap. 6.3, page 24

Primer (20)

In the delivery condition, after extended resting time and with the tank completely empty, there is no fuel yet in the carburettor after fuelling up.

Starting process: ➔ Chap. 6.1, page 23

To facilitate the starting process, fuel can be pumped into the carburettor. Push the primer (20) repeatedly until fuel appears in the primer.

Excess fuel is automatically flushed back into the tank from the primer.

Decompression valve (21)

When the decompression valve (21) is depressed, the compression pressure in the combustion chamber is reduced. This means that the engine offers less resistance during start-up, which makes it noticeably easier to start the engine.

Starting process: ➔ Chap. 6.1, page 23

The decompression valve is closed automatically when the motor is running.

If you need to pull the starter handle (16) more than once to start the engine (e.g. during a cold start), you do not need to depress the decompression valve again.
5 Preparing for use

5.1 Installing the cutting discs

The cutting discs used must correspond to the specifications from chap. 7.1 on page 25!

The power tool spindle is designed for cutting discs with an inner bore of 20 mm.

Cutting discs with 1" inner bores must only be installed together with the spindle adapter disc.

Installation of cutting discs with 1" inner bore: ➔ Chap. 5.2, page 16!

When using cutting discs with an inner bore of 20 mm, no additional spindle adapter disc is required.

- For cutting disc installation, the power tool must be put securely on the ground. Securely hold the power tool at the top handle with the left hand and push it firmly onto the ground. ➔ Chap. 5.4, page 17

- Insert blocking pin (a) entirely into the cutting disc blocking opening (12) to block the spindle. Screw out cutting disc attachment screw (11). Remove disc (b) and pressure disc (c).

- Put cutting disc (1) on spindle.

For cutting discs with specified rotating direction (arrow on the cutting disc), observe correct alignment of the cutting disc during assembly (for rotation direction of the cutting disc, see above).

- Push on pressure disc (c) so that the curved side points southwards, i.e. away from the cutting disc.
Preparing for use

- Push on disc (b) and turn in cutting disc attachment screw (11).
- Insert blocking pin (a) entirely into the blocking opening (12) and firmly tighten (30 Nm) the cutting disc attachment screw (11).
  Securely hold the power tool at the top handle with one hand and push it firmly onto the ground.
- Remove the blocking pin (a).

5.2 Installing cutting discs with 1” inner bore

The power tool’s spindle is designed for cutting discs with an inner bore of 20 mm. For proper installation of cutting discs with a 1” inner bore, the spindle adapter disc is required that is included with the delivery of the power tool. The spindle adapter disc ensures correct fit of the 1” cutting disc on the spindle.

- Installation of cutting discs with 1” inner bore takes place according to chap. 5.1 as of page 15.
- After applying the cutting disc on the spindle, however, the spindle adapter disc (e) must be put on the spindle (f) additionally.
- Put the spindle adapter disc (e) onto the spindle so that it inserts between spindle and inner bore of the cutting disc. The support area of the spindle adapter disc must point outwards in the installed condition, i.e. away from the spindle. The correct orientation of the spindle adapter disc is mandatory to directly connect the plane inner area to of the pressure disc to the cutting disc. Only this warrants secure attachment of the cutting disc.
- Application of the pressure disc and all following steps must be performed again according to chap. 5.1.

5.3 Uninstalling the cutting disc

- For cutting disc uninstallation, the power tool must be put securely on the ground. Securely hold the power tool at the top handle with the left hand and push it firmly onto the ground. ➔ Chap. 5.4, page 17
- Insert blocking pin (a) entirely into the cutting disc blocking opening (12) to block the spindle. Screw out cutting disc attachment screw (11). Remove disc (b) and pressure disc (c) (also see chap. 5.1).
- Remove cutting disc from the spindle. For cutting discs with a 1” inner bore, the spindle adapter disc also must be removed from the spindle.
- Put the pressure disc back onto the spindle so that the curved side points outward.
- Put on disc (b) and turn in the cutting disc attachment screw (11) again. ➔ Chap. 5.1.
- Insert blocking pin (a) entirely into the blocking opening (12) and firmly tighten (30 Nm) the cutting disc attachment screw (11) again.
  Securely hold the power tool at the top handle with one hand and push it firmly onto the ground.
- Remove the blocking pin (a).
5.4 Adjusting protective cowl

The protective cowl (2) can be swivelled forward and backward in a limited area.

For adjustment of the protective cowl, the power tool must be put securely on the ground. Securely hold the power tool at the top handle (4) with the left hand and push it firmly onto the ground. With the right hand at the handle for protective cowl adjustment (3), swivel the protective cowl accordingly.

To keep sparks and particles torn out in cutting away from the user, the protective cowl always must be swivelled forward as far as the working situation permits.

If the separating device has been installed in the outer position, ensure when adjusting the protective cowl that the water supply line is not clamped and that contact between the cutting disc and water supply line in operation is excluded.

5.5 Fuelling up

Danger to health!
Direct skin contact with petrol and breathing in of petrol fumes must be excluded.

The high-performance two-stroke engine of this power tool requires an oil-petrol mix in the combustion chamber (oil and petrol = fuel mix).

Models 880-12 and 880-14

Models 880-12 and 880-14 are equipped with a fuel tank (18).

Fuel tank for fuel mix according to the mix table below.

Unsuitable fuels or deviations of the mix ratio may cause engine damage!

The fuel mix must be formed from the following components:
- Lead-free regular petrol or lead-free super petrol (octane number ≥92 RON)
- Branded 2-stroke engine oil corresponding to the standard ISO EGD or JASO FD

We recommend the "SOLO Profi 2-stroke engine oil" offered by us at a mixing ratio of oil:petrol of 1:50 (2 %).
Store the fuel mix no longer than for 3 weeks.
Mix table for fuel mix:

<table>
<thead>
<tr>
<th>Branded 2-stroke engine oil in litres, 2 % (1:50)</th>
<th>Petrol in litres</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.020</td>
<td>1</td>
</tr>
<tr>
<td>0.040</td>
<td>2</td>
</tr>
<tr>
<td>0.100</td>
<td>5</td>
</tr>
<tr>
<td>0.200</td>
<td>10</td>
</tr>
</tbody>
</table>

Instead of a self-produced fuel mix, you may also use a pre-mixed special fuel mix for two-stroke motors. We recommend the special fuel mix of the brand "Aspen 2-stroke". The special fuel manufacturer's information must be observed.

Models 881-12 and 881-14 with iLube®

Models 881-12 and 881-14 are equipped with a fuel tank and an oil tank each that must be filled according to the specification below. The fuel mix is automatically formed during operation in these models (separate lubrication, iLube®, Intelligent Lubrication).

Fuel tank (18) for lead-free regular petrol or lead-free super petrol (octane number ≥ 92 RON).

Do not fill any fuel mix into the fuel tank (18)!

Oil tank (19, green cap) for branded 2-stroke engine oil corresponding to the standard ISO EGD or JASO FD. We recommend the "SOLO Profi 2-stroke engine oil" we offer.

If there is not enough oil in the oil tank, the power tool will automatically reduce output even in the lower speed area and will not reach the speed required for work, which will be noticed by changed noise generation as compared to regular operation. At this point at the latest, oil must be refuelled.

Fill in operating media (fuel mix or petrol and oil)

Observe the safety provisions when fuelling up. Fuel up only with the motor switched off.

- Clean the fill-in area well.
- Put down the motor device so that the fuel tank cap points up.
- Screw off the tank cap.
- To avoid contamination in the tank, use a screen funnel if possible.
- Fill the tank no farther than to the lower edge of the nozzle.
- Screw on the tank cap tightly again until the overturning protection clearly "skips".
- After fuelling up, clean any splashed operating medium from the power tool.
- Never start or operate the power tool at the site of fuelling.
5.6 Adjusting the ribbed belt tension

Generally, the ribbed belt tension must be set correctly when commissioning the power tool. At initial commissioning, at recommissioning after extended stand still, after replacement of the ribbed belt or after any other assembly work, always check the tension and set the correct tension if required.

- Loosen both attachment nuts (a).
- Turn ribbed belt tensioning screw (13) towards the right (clockwise).
  - Increase ribbed belt tension.
  The square nut (b) moves to the mark "+".
- Turn ribbed belt tension screw (13) towards the left (counter-clockwise):
  - Reduce ribbed belt tension.
  The square nut (b) moves to the mark "−".
- The correct tension is reached when the square nut (b) is on the centre mark (c), in between "+" and "−".
- Tighten both attachment nuts (a) again.

5.7 Water connection for wet cutting

Lots of fine dust occurs when cutting mineral materials. We recommend using the water connection when using cutting discs suitable for wet cutting with mineral materials. When cutting with the water supply connected, the dust is bound, visual inspection is improved and the cutting disc service life is increased by the cooling effect of the water.

Before wet cutting:
- Connect suitable water line or suitable pressure tank to the coupling connection (24).
- Operate the valve lever (28) to open or close the water supply.

After wet cutting:
- Close the water supply, i.e. put the valve lever across the connection piece.
- Let the cutting disc run at high speed for another approx. 30 seconds to completely eject the water.

Cleaning the screen filter insert in the coupling piece (27): ➔ Chap. 8.2, page 30
5.8 Relocate cutting device from centre position to outer position

The power tool is delivered for operation of the cutting disc in the centre position by default. Generally, the power tool is more balanced in the centre position, because the weight is distributed symmetrically to the centre axis and the cut therefore is easier to guide.

If obstacles are very close to the cutting course, it may be required to install the cutting device in the outer position so that the cutting disc is located farther towards the outside.

⚠️ When working with the cutting disc in the outer position, observe the asymmetric weight distribution!
If possible, work in the centre position.

Conversion from centre to outer position

**Preparation**
- Put the power tool on a level underground.
- Uninstall the cutting disc: → Chap. 5.3, page 16
- Uninstall the water supply line (30): Screw off the attachment screw (a) of the water supply line on the right and left sides of the protective cowl (2). Remove both adapter pieces (b) including the line from the protective cowl. Put down adapter pieces including line so that the line does not interfere with the following work steps and is not clamped.
- Uninstall handle for protective cowl adjustment (3). Loosen both attachment screws (c) of the handle for protective cowl adjustment and remove the handle.
- Loosen both attachment nuts (d) of the ribbed belt cover (14).
- Turn ribbed belt tension screw (13) towards the left, e.g. counter-clockwise, to reduce the ribbed belt tension. Turn until the square nut (e) has been moved towards the mark “−” (f) as far as possible. When installing the cutting device in the centre position (cf. figure), the square nut is all the way to the left; in case of installation in the outer position, it is located all the way to the right.
- Remove both attachment nuts (d) entirely.
- Remove the ribbed belt cover (14).

**Remove (2) protective cowl**
- Carefully move the protective cowl towards the motor unit. The screws (g) of the assembly flange (j) are moved within the oblong holes.
- Once the protective cowl has been moved towards the motor unit until the ribbed belt support (i) can be pulled through the ribbed belt (h), remove the protective cowl. Observe that the ribbed belt is not damaged by this.
Loosen and turn assembly flange (j)
- Put the protective cowl on a level surface with the assembly flange (j) pointing up (screws (g) of the assembly flange point up).
- Turn out screw (k). Hold the nut below the assembly flange with flat pliers.
- Twist the assembly flange against the protective cowl so that the receptacle bore for the screw (k) is located between the centre stop and the right stop (m) on the protective cowl. The assembly flange is hard to twist. Securely hold the protective cowl when twisting.

Limit protective cowl rotating angle with screw (k)
- Turn in screw (k) again.
  For this, guide the nut (n) below the assembly flange with flat pliers and hold it when turning in the screw.
  Turning of the protective cowl is limited by the stops on the protective cowl between which the nut can be moved.

Install cutting device in the outer position
- Put the cutting device on the cutting device carrier in the outer position. For this, guide both screws (g) of the assembly flange through the oblong holes and put the ribbed belt support (i) into the ribbed belt.
- Check that the ribbed belt is running freely. Correct placement of the ribbed belt if required.
- Put on the ribbed belt cover (14) again.

Adjust the ribbed belt tension
- Screw both attachment nuts (d) of the ribbed belt cover onto the assembly flange screws. Only tighten the nuts manually so that the ribbed belt tension can still be set.
- Turn ribbed belt tension screw (13) towards the right, e.g. clockwise, to increase the ribbed belt tension. The correct tension is reached when the square nut (e) is on the centre mark, i.e. between "+" and "−".
- Tighten both attachment nuts (d) firmly.
Move water supply line attachment upwards

The water supply line must be placed so that contact between water supply line and cutting disc in operation is excluded in all positions of the protective cowl.

- Place the water supply line so that it runs on the outside of the protective cowl and not between the protective cowl and the assembly flange.
- Push the attachment screws (a) of the water supply line into the adapter pieces (b).
- Place the adapter pieces on the right and left sides of the protective cowl above the associated threaded holes (p) and screw in the water supply line attachment screws.

- Loosen the screw (q) of the clamp (r) until the clamp can be moved upwards at the blank spar of the top handle (s).
- Push the clamp upwards so far that the water supply line can never be in contact with the cutting disc.
- Check placement of the water supply line when the protective cowl is swivelled all the way to the front and correct if required.

Install handle for protective cowl adjustment and cutting disc again

- Install the handle for protective cowl adjustment (3) again to the protective cowl with the respective attachment screws.
- Installing the cutting disc: Chap. 5.1, page 15

5.9 Initial commissioning / run-in behaviour

After production, the power tool is subjected to an inspection and test process that ensures that the motor is then run in perfectly.
Therefore, no special measures are required for initial commissioning.
6 Starting up and switching off the engine

Observe safety provisions!

6.1 Starting process

Starting preparations
- Put the power tool level and free from obstacles on the flat floor and observe that the cutting disc does not touch any objects.
- Put the protective cowl into the best position for the planned use. ➔ Chap. 5.4, page 17

Automatic mixture control for cold and warm start
The power tool has an electronically controlled carburettor. Therefore, no special settings are required for cold or warm start (e.g. manual operation of a choke).

Starting notes

- Turn the stop dial to the operating position "1".
- Before the first start, operate the primer. ➔ Chap. 4.6, page 14
- Before starting-up, push the decompression valve. ➔ Chap. 4.6, page 14
- Put the power tool in start-up position. ➔ Chap. 6.2, page 24
- Pull on the starter handle. ➔ Chap. 6.3, page 24
Starting up and switching off the engine

6.2 Start-up position

Any contact between the cutting disc and body parts or objects must be perfectly excluded.

- Put one foot on the rear handle (6) to support the power tool against the floor.
- Securely hold the power tool at the top handle (4) with one hand and push it firmly onto the ground.
- Operate the starter handle with the other hand (16).

Other start-up positions are not permissible!

6.3 Switching on the engine

The following notes serve to increase the service life of the starter mechanism:

- Initially pull out the starter handle (16) slowly until resistance can be felt for start-up (upper dead point of the piston).
- Then quickly and strongly pull through the starter handle.
- Always pull out the rope straight.
- Do not let the rope scrape across the rope eyelet edge (a).
- Danger of breaking rope!
  Do not pull out the rope to the stop.
- Always return the starter handle to its initial position – do not let it snap back.

Damaged starter ropes can be replaced by specialist workshops authorised by us.

6.4 Switching off the engine

Release the throttle control and push the one-touch stop button.

Ensure that the cutting disc has stopped before putting down the power tool.

Advice: We recommend that you turn the stop dial to "0" only for maintenance work to prevent accidental start-up of the engine. When operating the power tool, always push the one-touch stop button to switch off the engine.
7 Power tool use

Always observe all safety notes and generally all information even in the other chapters of these operating instructions for any work!

Check list for use (keywords only!) ................................................. →

- Before start-up:
  - Power tool in an operationally safe condition! ...................... → Operating instructions complete
  - Prescribed work clothes .................................................... → Chap. 3.3, page 7
  - Working area inspected and secured ..................................... → Chap. 3.2, page 6, and chap. 3.9, page 10
  - Correct cutting disc firmly installed. ................................... → Chap. 5.1, page 15, and chap. 7.1, page 25
  - Protective cowl in best position ......................................... → Chap. 5.4, page 17
  - Cutting device position, preferably centre position ............... → Chap. 5.8, page 20
  - Ribbed belt tension correct .............................................. → Chap. 5.6, page 19
  - Operating media filled in .................................................. → Chap. 5.5, page 17
- Starting: .................................................................................. → Chap. 6 complete, as of page 23
  - Starting preparations .......................................................... → Chap. 6.1, page 23
    - Stop dial in operating position ........................................... → Chap. 6.1, page 23
- During work – generally safe work: .......................................... → Operating instructions complete
  - Check idle settings ................................................................ → Chap. 8.3, page 31
  - Inspecting the working situation .......................................... → Chap. 3.9, page 10, Chap. 7.2, page 26, and Chap. 7.3, page 27
  - Wet cutting preferred .......................................................... → Chap. 5.7, page 19
  - Secure working technique .................................................. → Chap. 7.3, page 27, chap. 7.4, page 27, and chap. 7.5, page 28
  - Operating and maintenance notes complete ......................... → Chap. 8 complete, as of page 29
    - Air filter clean ................................................................. → Chap. 8.4, page 32
- After work: ............................................................................... → Operating instructions complete
  - Cleaning and care ............................................................... → Chap. 8.1, page 29
  - Secure storage of power tool .............................................. → Chap. 8.10, page 38
  - Maintenance ......................................................................... → Operating instructions complete

7.1 Cutting discs

Only use cutting discs that correspond to the standards EN 12413 and EN 13236 and that are perfectly undamaged.

The approved maximum speed of the cutting disc must be \( \geq 4,450 \text{ min}^{-1} \).

For processing of metals (hot cutting) and processing of mineral materials (cold cutting), different cutting discs are offered. Generally, only the cutting disc approved for the material to be processed must be used. Diamond cutting discs are only approved for cutting mineral materials. When installing the diamond cutting disc, always observe the rotating direction indicated on the diamond cutting disc; otherwise, the cutting effect will reduce quickly from diamond loss.
Rotating direction of the cutting disc in the installed condition: ➔ Chap. 5.1, page 15

Synthetic resin cutting discs must not be exposed to moisture. The water connection for wet cutting must not be used when using synthetic resin cutting discs. Synthetic resin cutting discs must not be used in high humidity or in rain. Only use synthetic resin cutting discs until the end of the best-before date imprinted on the receptacle ring of the cutting disc.

The power tool's spindle is designed for cutting discs with an inner bore of 20 mm. Cutting discs with an 1" inner bore must only be installed with the spindle adapter disc from the power tool's delivery.

Installation of cutting discs with 1" inner bore: ➔ Chap. 5.2, page 16
Cutting discs with other inner bores must not be installed!

New cutting discs must be tested for at least 60 seconds at the indicated maximum speed before the first cutting process. No body parts must be located in the extended swivel range of the cutting disc.

7.2 Permissible cutting area and danger from kickback or drawing along

⚠️ Danger of injury from kickback!
Kickback results when the upper part of the cutting disc is used for cutting. The power tool is pushed towards the user's head uncontrolled and under high energy.

- Never cut with the upper area of the cutting disc!
- Take special care at insertion into cutting areas already started!

⚠️ Danger of injury from drawing along!
Drawing along results when the cutting point becomes more narrow (crack or tensioned workpiece). The power tool is accelerated forwards uncontrolledly and under high energy.

- Always perform cutting and repeated insertion into cutting points already started at the maximum speed.
- Always support the work piece so that the cutting point is under tension so that the cutting disc is not clamped when cutting any further.
- When starting cutting, always carefully move the cutting disc to the workpiece; do not apply it suddenly.
- Never cut several workpieces at once!
- Ensure that no other workpiece is touched when cutting.
### 7.3 Working behaviour and working technique

- For complex cutting processes, cutting direction and order of the cuts to be performed must be specified in advance to prevent clamping of the cutting disc by the removed part and injury from dropping parts.
- Always hold the power tool with both hands. Have the right hand on the rear handle, the left hand on the top handle. Firmly grasp the handles with your thumb.
- Operate the power tool at high speed when possible.
- Direction change (radii below 5 m), side pressure or tilting of the power tool during cutting are forbidden.
- When shortening workpieces, use a secure support and secure the workpiece against slipping and twisting. The workpiece must not be held with your foot or by another person.
- Always be ready for sudden kickback of the workpiece and warrant the possibility of securely backing away.
- Observe that cut-off materials cannot cause any injury and property damage.

### 7.4 Cutting metal

Always wear breathing protection at dry cutting.

Metals are heated and melted at the point of contact by the fast rotation of the cutting disc.

- Swivel the protective cowl down as far as possible for sparks to fly forward where possible, i.e. away from the user.
- Before cutting, specify and mark the cutting joint, and approach the material with the cutting disc at medium speed. Only when the guide groove is cut, continue cutting at full throttle and increased pressure.
- Only cut straight and vertically. Do not tilt.
- For a secure and smooth cut, it is best to pull or to move the power tool forward in a controlled fashion. When moving the power tool forwards, do not push the cutting disc into the material in addition to the thrust caused by the disc's rotation.
- Massive round rods are best cut in steps.
- Thin tubes can be cut with a single sinking cut.
- Tubes with large diameters should be treated like massive rods. To avoid tilting and for better control of the cutting process, do not let the cutting disc sink into the material too far. Always cut flat around.
- Double-T carriers or angled steel should be cut in steps.
- Steel bands or steel plates are cut like tubes; pulling flat with long cutting area.
- Material under tension (supported or material in a wall) always has to be grooved slightly on the pressure side and then cut from the pulling side so that the cutting disc is not clamped.
### 7.5 Cutting mineral materials

Lots of fine dust occurs when cutting mineral materials. We recommend that you use the water connection of the power tool when cutting mineral materials, and to use cutting discs suitable for wet cutting. When cutting with water supply, the dust is bound, visual inspection is improved and the cutting disc service life is increased by the cooling effect of the water.

Water connection for wet cutting: [Chap. 5.7, page 19](#)

Mineral materials are torn out at the point of contact and ejected from the cutting groove by the quick rotation of the cutting disc.

- Swivel the protective cowl down as far as possible for the cut particles to fly forward where possible, i.e. away from the user.
- Mark the cutting line and grind a groove of approx. 5 mm along the entire line at half throttle that will guide the power tool precisely for the subsequent cutting process.
- Perform the cutting process with even movements back and forth.
- When fitting stone plates, application of a flat groove is sufficient (avoiding unnecessary dust formation), to then cleanly strike off the protruding piece on a flat support.
Operating and maintenance notes

Maintenance and repairs of state-of-the-art power tools and their safety-relevant assemblies require qualified specialist training and a workshop equipped with special tools and test devices. Therefore, we recommend that all work not described in these operating instructions and all work you are not comfortable with be performed by a specialist workshop authorised by us. The specialist has the required training, experience and equipment and can make the most cost-efficient solution available to you. He will advise and support you.

Observe the safety provisions for any maintenance work!

After a run-in time of approx. 5 operating hours, all screws and nuts that can be reached (except for carburettor adjustment screws) must be checked for tight fit and tightened again if required.

It is best to keep the power tool in a dry and safe site with a full fuel tank. There must not be any open sources of fire or the like nearby.

Before extended storage (>4 weeks), observe the notes in chap. 8.10 on page 38.

8.1 Cleaning and care

The power tool must be cleaned thoroughly after every work deployment and checked for damage; in particular the cooling air openings in the starter housing must be clean and free. Inside the protective cowl, material deposits will form over time (in particular when wet cutting), which may impair free rotation of the cutting disc.

Only use the environmentally compatible cleaning agents offered by specialist vendors for cleaning. Never use fuel to clean!

- Disassemble cutting disc and pressure disc. ➔ Chap. 5.3, page 16
- Remove material deposits inside the protective cowl with a wood bar or similar.
- Clean spindle and all disassembled parts and check them for damage.
- Clean cutting disc and check it for damage. If any damage is found, dispose of the cutting disc properly immediately so that it is not reused in the next work deployment.
- Install pressure disc, any other parts and cutting disc again ➔ Chap. 5.1, page 15
8.2 Cleaning the screen filter insert of the connection piece

The connection piece for the water supply line for wet cutting is equipped with a screen filter insert to prevent closure of the water supply line by contamination in the supplied water.

Danger of contamination for the water supply line!
Only open the water connection in a clean environment.

At a weekly interval or when there is no longer enough water supplied for wet cutting, the screen filter insert of the connection piece must be removed as follows and cleaned thoroughly:

- Switch off the engine and turn the stop dial to "0". Switching off the engine: Chap. 6.4, page 24
- Remove the connection of the water supply line. For this, remove the coupling connection (24) from the screen filter connection piece (27) of the water supply line in the direction of the arrow.
- Turn out screen filter connection piece with suitable open-faced spanner from connection (a) of the water supply line.
- Ensure that the seal (b) is not lost.
- Disassemble screen filter connection piece with suitable open-faced spanner.
- Remove screen filter insert (c) from screen filter receptacle (d) of the connection piece.
- Flush the screen filter insert, coupling connection, both parts of the screen filter connection piece and seal with clean water until all residue of contamination has been removed.
- Re-insert the screen filter insert in the screen filter receptacle (d) of the connection piece in the correct direction (see figure).

- Screw together the screen filter coupling piece.
- Push the seal (b) onto the thread of the screen filter connection piece.
- Screw the screen filter coupling piece with attached seal into the connection (a) of the water supply line again.
- Push on the coupling connection again.
8.3 Idle/carburettor adjustment

The cutting disc must not be driven when idling!
The idle position must be inspected every time when taking up work and corrected if required.

For correct idle position, the motor should run smoothly in the idling mixture without driving the cutting disc.

The carburettor is set perfectly ex works.
Depending on site of deployment, the idle settings may have to be adjusted via the idle stop screw "T" (22).

The carburettor adjustment screws "L" (idle mix control) and "H" (full load mix control) (23) must only be set by specialist workshops authorised by us.

Idle stop screw "T"
The idle stop screw "T" can be adjusted with the small screwdriver from the delivery.

The air filter must be clean for correct adjustment. Air filter maintenance: ➔ Chap. 8.4, page 32
Let the engine warm up before performing adjustments.
To set the idle speed indicated in the technical data (chap. 4.1, page 11), proceed as follows – preferably using a speed meter:

- Idle speed too high (in particular if the cutting disc is already driven without throttle):
  ➔ Open the idle stop screw "T" counter-clockwise a little.

- Idle speed too low (i.e. the engine goes out with the idling mixture):
  ➔ Close the idle stop screw "T" clockwise a little until the engine runs smoothly with the idling mixture without going out.

If a perfect carburettor setting cannot be achieved by turning the idle stop screw "T", have the carburettor set by a specialist workshop authorised by us.

Carburettor adjustment screws "L" and "H"
The following instructions are meant for authorised specialist workshops only!

The carburettor settings serve achievement of the best motor output. Use a speed meter for settings under all circumstances!

- The carburettor adjustment screw "L" (idle mix control) and the carburettor adjustment screw "H" (full load mix control) are to be readjusted with a D-CUT carburettor spanner.
- Specialist workshops can inquire about the basic settings from our customer service or our internet portal for specialist vendors at www.parts-and-more.org.
A contaminated air filter will reduce output. Fuel consumption and hazardous substance quantity in the exhaust increase. Starting is made more difficult as well.

Interim emptying of the air filter

Turn vibration dial (29) to perform rough interim emptying of the air filter during work. The air filter box and air filter are shaken so that loose dust falls off. Slightly tilt the power tool back and let dust fall out of the intake openings. Turn the vibration dial repeatedly if required.

Cleaning the air filter

At weekly intervals or when the engine output is clearly reduced, the air filter must be removed and cleaned thoroughly.

Danger of contamination for the filter inside!

Only open the cowl and air filter box lid in a clean environment.

- Switch off the engine and turn the stop dial to "0". Switching off the engine: Chap. 6.4, page 24
- Loosen all four attachment screws (a) and (b) of the cowl (5). Remove cowl.
- Loosen all four attachment screws (c) of the air filter box lid (d) and take off the air filter box lid.
The filter mat (e), the fine-mesh cover (g) and the air filter (h) must not be cleaned wet or with compressed air.

Danger of engine damage from insufficient filter effect!
Replace damaged filter material at once!

- Remove filter mat (e) upwards and beat to clean.
- Take air filter by the air filter frame (f) and remove upwards.
- Simple bearing or falling out of the individual paper layers (h) is best to clean the air filter.
- Take power tool with both hands to empty the air filter box (i).
- De-dust fine-meshed cover (g) next to the air filter box with a dry brush.
- Insert air filter again. Insert filter mat.
- Install housing parts again.

At re-installation of the housing parts, ensure correct placement of the housing parts, use the corresponding screws and tighten all screws again.
The cowl attachment screws (a) and (b) must not be swapped. The two cowl attachment screws (b) are shorter than the screws (a).

8.5 Spark plugs check and replacement if required

Danger of contamination for the power tool inside!
Only open the spark plug cover in a clean environment.

The spark plug must be inspected regularly every 50 operating hours.

- Switch off the engine and turn the stop dial to "0". Switching off the engine: ➔ Chap. 6.4, page 24
- Loosen attachment screw (a), lift spark plug cover (8) by the tab and then remove it.
- Remove spark plug connector (b) from the spark plug (d) below.

Danger of fire from spark formation!
Do not start up the engine with the spark plug (d) screwed out or the ignition cable (c) removed from the plug.

- Screw out spark plug (d) and dry off well.
- Clean spark plug with dry cloth and check electrodes. There must not be any foreign body between the electrodes. Brush out any foreign bodies with a spark plug brush.
- If the electrodes are strongly burned down, the spark plug must be replaced at once – otherwise, it must be replaced after 100 operating hours.
- Proper electrode distance: 0.5 mm. Replace the spark plug if the electrode distance is incorrect.
  The following interference-suppressed spark plugs are approved for use in this power tool:
  BOSCH WSR6F, CHAMPION RCJ-6Y and NGK BPMR7A
  Use of other spark plugs is not permissible!
- Check ignition cable (c) for proper connection and intact insulation. If the insulation is damaged, do not continue work, but order repair from a specialist workshop charged by us.
- Screw in spark plug (d) again. Torque: 25 Nm
- Push the spark plug connector (b) onto the spark plug (d) firmly at reattachment.
- Re-install the spark plug cover (8).

8.6 Ribbed belt replacement

Danger of contamination of ribbed belt, associated carrier structure and coupling!
Only open the ribbed belt cover and coupling cover in a clean environment.

- Switch off the engine and turn the stop dial to "0". Switching off the engine: Chap. 6.4, page 24
- Shut off water supply to the unit.
- Put the power tool on a level underground.
- Loosen both attachment nuts (a) of the ribbed belt cover (14).
- Turn ribbed belt tension screw (13) towards the left, e.g. counter-clockwise, to reduce the ribbed belt tension.
  Turn until the square nut (b) has been moved towards the mark "–" (c) as far as possible. When installing the cutting device in the centre position (cf. figure), the square nut is all the way to the left; in case of installation in the outer position, it is located all the way to the right.
- Remove both attachment nuts (a) entirely.
- Remove the ribbed belt cover (14).
- Screw the attachment nuts (a) of the ribbed belt cover (14) onto the associated screws again and tighten only slightly so that the separating device cannot fall off again.
- Loosen all 3 attachment screws (d) of the coupling cover (e). The screws only need to be loosened until they can be turned very easily. It is not necessary to turn out the screws entirely, since the screws should remain in the cover.
**Operating and maintenance notes**

- Put the valve lever (28) for the water supply parallel to the connection piece so that it does not interfere with the following work step.
- Remove the coupling cover (e).
- Remove the old ribbed belt (f) or any residue of the old ribbed belt and any other foreign bodies.
- Use a small brush or paintbrush to clean the open area.
- Place a new ribbed belt on the grooved running surface (g) on the drive side behind the coupling bell (h).
- Put the other side of the ribbed belt on the grooved running surface (i) of the ribbed belt support on the output side.

- Check that the ribbed belt is running freely. Correct placement of the ribbed belt if required.
- Put on the coupling cover again and check that the ribbed belt is still running freely. If required, remove the coupling cover again and correct placement of the ribbed belt.
- Tighten all 3 attachment screws (d) of the coupling cover (e) again.
- Check that the ribbed belt is still running freely. If required, loosen the coupling cover screws again and correct placement of the ribbed belt.
- Unscrew both attachment nuts (a) of the ribbed belt cover again.
- Put on the ribbed belt cover (14) again.
- Screw on both attachment nuts (a) of the ribbed belt cover again. Only tighten the nuts manually so that the ribbed belt tension can still be set.
- Turn ribbed belt tension screw (13) towards the right, e.g. clockwise, to increase the ribbed belt tension. The correct tension is reached when the square nut (e) is on the centre mark, i.e. between "+" and "−".
- Tighten both attachment nuts (a) of the ribbed belt cover (e).
- Close the water supply valve lever, i.e. put the valve lever across the connection piece.

### 8.7 Fuel filter replacement

The fuel filter in the fuel tank must be replaced in the scope of the annual customer service in a specialist workshop charged by us.
### 8.8 Maintenance plan

The following notes refer to regular usage situation. Under special conditions, such as long daily working times, the maintenance intervals stated must be reduced accordingly.

Perform maintenance work at regular intervals. Charge a specialist workshop authorised by us if you cannot perform all work on your own.

The owner of the power tool is also responsible for:
- Damage from unprofessional or belated maintenance or repair work
- Subsequent damage – also corrosion – in case of improper storage

<table>
<thead>
<tr>
<th>Maintenance Item</th>
<th>Instructions</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling air openings in the starter housing</td>
<td>Clean</td>
<td>X</td>
</tr>
<tr>
<td>Carburettor</td>
<td>Check idling</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Set idling (screw &quot;T&quot;)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Set carburettor (screws &quot;L&quot;/&quot;H&quot;) (for specialist workshops only)</td>
<td></td>
</tr>
<tr>
<td>Air filter</td>
<td>Interim emptying of the air filters</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Clean air filter thoroughly</td>
<td>X</td>
</tr>
<tr>
<td>Screen filter of the water supply line</td>
<td>Clean</td>
<td>X</td>
</tr>
<tr>
<td>Spark plug</td>
<td>Check firm seat of ignition cable and spark plug connector</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Check electrode distance and replace spark plug if required</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Replace</td>
<td></td>
</tr>
<tr>
<td>All screws in reach (except for adjustment screws)</td>
<td>Re-tighten</td>
<td>X</td>
</tr>
<tr>
<td>Operating units (stop button/switch, throttle control, throttle control lock, starter)</td>
<td>Check function</td>
<td>X</td>
</tr>
<tr>
<td>Entire power tool</td>
<td>Visual condition inspection</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>● Check cutting disc and muffler for damage.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>● Check tank cap for tightness</td>
<td></td>
</tr>
<tr>
<td></td>
<td>● Check ribbed belt tension</td>
<td></td>
</tr>
<tr>
<td></td>
<td>● chap. 5.6, page 19</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clean</td>
<td>X</td>
</tr>
</tbody>
</table>
Furthermore, a specialist workshop authorised by us must be charged, among others, with the following service in the scope of the annual customer service:

- Complete inspection of the entire power tool
- Professional motor cleaning (fuel tank, cylinder ribs, ...)
- Inspection and, if applicable, replacement of the wear parts, in particular annual replacement of the fuel filter
- Best settings of the carburettor

### 8.9 Self-aid advice

Possible malfunctions:

- **Engine does not start up**
  - Stop dial
    - Turn the stop dial to the operating position "1". ➔ Chap. 6.1, page 23
  - Spark plug
    - Clean or replace ➔ Chap. 8.5, page 33
  - Old fuel
    - Empty and clean tank, fuel up with fresh fuel ➔ Chap. 5.5, page 17

- **Cutting disc is not accelerated properly**
  - Foreign body inside the protective cowl
    - Clean protective cowl ➔ Chap. 8.1, page 29
  - Ribbed belt tension too low
    - Correctly set ribbed belt tension ➔ Chap. 5.6, page 19

- **Cutting disc is driven in idle operation**
  - Idle stop screw "T"
    - Correctly adjust idle stop screw "T" ➔ Chap. 8.3, page 31
  - Coupling defective
    - Service workshop

- **Bad engine output**
  - Air filter clogged
    - Clean air filter thoroughly ➔ Chap. 8.4, page 32
  - Carburettor settings (L/H-settings)
    - Service workshop

- **Insufficient or no water supply in wet cutting**
  - Valve lever of the water supply line not opened
    - Open valve lever ➔ Chap. 5.7, page 19
  - Connection of the water supply closed
    - Open water supply
  - Water supply pressure tank empty or pressure-relieved
    - Top up water or recover pressure supply
  - Screen filter insert contaminated
    - Thoroughly clean screen filter insert ➔ Chap. 8.2, page 30

- **Changed noise emission and motor does not reach high speeds**
  (only for models 881-12 and 881-14)
  - Not enough engine oil in the oil tank
    - Fuel up engine oil ➔ Chap. 5.5, page 17
Before shutting down and storage, the power tool must be cleaned thoroughly and checked for damage. Cleaning and care: Chap. 8.1, page 29

Only store the power tool in dry rooms. There must not be any open sources of fire or the like nearby. Prevent unauthorised use – in particular by children.

Before extended storage, (>4 weeks) additionally empty the tanks for operating materials in a well-ventilated location and clean them. Start engine with the fuel tank empty and empty the carburettor until the engine goes out. Oil residue from the fuel lubrication may otherwise close the carburettor nozzles and make start-up more difficult later.
9 Warranty

We warrant perfect quality and assume the costs for any subsequent improvement by replacement of defective parts in case of material or production errors that occur during the warranty period after the day of sale.

Please observe that specific warranty conditions apply in some countries. In doubt, ask your vendor. He as vendor of the product is responsible for the warranty.

Please understand that we cannot assume any warranty for the following damage causes:

- Non-observance of the operating instructions
- Omission of necessary maintenance and cleaning work.
- Damage due to improper carburettor settings.
- Wear from regular use.
- Obvious overload because the upper performance limit is exceeded continually.
- Use of other than approved working tools.
- Application of force, improper treatment, misuse or accident.
- Overheating damage due to contamination at the fan housing.
- Manipulation of persons who are not professionals or unprofessional attempts at repair.
- Use of unsuitable spare parts or other than original parts if they caused the damage.
- Use of unsuitable or too old operating materials.
- Damage due to the usage conditions from renting.

Cleaning, care and adjustment work are not deemed warranty services.

Warranty services must be ordered from a specialist workshop authorised by us.

10 Wear parts

Several components are subject to wear in operation or regular wear and may have to be replaced in time.

The following wear parts are not subject to the manufacturer's warranty:

- Operating materials
- Air filter
- Fuel filter
- Clutch
- Spark plug
- Starting device
- Cutting disc

11 EC Declaration of conformity

SOLO Kleinmotoren GmbH, Stuttgarter Str. 41, 71069 Sindelfingen, GERMANY, declares that the following machine as delivered complies with the provisions in implementation of the following EC directives: 2006/42/EC, 2000/14/EC (Annex V) and 2004/108/EC

Product designation: Cut-off machine
Type designation: 08
Trade designation: 880/881


Valid for machines as of serial number: 8801200-0412-001001, 8801400-0412-001001, 8811200-0412-001001, 8811400-0412-001001 and the following serial numbers.

Sound power level pursuant to 2000/14/EC: warranted: 110 dB(A), measured: 108 dB(A)

Storage site for the technical documents pursuant to 2000/14/EC and 2004/108/EC: SOLO Kleinmotoren GmbH, Stuttgarter Str. 41, 71069 Sindelfingen, GERMANY

This declaration of conformity loses its validity when the product is converted or modified without agreement.

Person authorised to compile documentation: Andreas Hedrich, SOLO Kleinmotoren GmbH, Stuttgarter Str. 41, 71069 Sindelfingen, GERMANY

Sindelfingen, 01/04/2012

Wolfgang Emmerich, Geschäftsführer