

SENCORE S8100 CUT-OFF SAW

Instruction Manual



Instruction manual for the Sencore S8100 AutoLube™

Dear customer:

Thank you for purchasing the Sencore S8100 from our company.

Over the years our company has searched for a solution to the common problems encountered by contractors with their hand-held concrete saws, after years of talking with contractors we found the most common problems with the saws in the market today are the following:

- Improper fuel mixture in 2-Cycle Engines
- Manual Choke causing flooding and inability to start motor
- Difficulty in tensioning belt
- Lack of durability- poor build quality
- Weight of the tool itself
- Under powered saws that cannot complete the cut quickly and at the correct RPM.
- Ineffective air filtration and clogged air filters
- Poor weight distribution of the saw (balance)
- Pull start systems that constantly break

These were just some of the complaints that we heard, and we knew if we could find a way to address these concerns we would have the best saw on the market today.

After years of searching and testing handheld saws we found a manufacturer that could make the saw that the market was asking for. Our manufacturer, located in Germany, has 75 years of experience manufacturing 2-cycle engines for the construction and agricultural markets. Their engineers were able to address all of the problems listed above and even some that were not mentioned.

Thats how the Sencore S8100 was born!

- AutoLube™ technology lets the saw determine how much oil needs to go into the cylinder for optimum lubrication and maximum saw life
- Electronic choke determines the fuel air mixture needed to start at any temperature
- External screw for belt tensioning
- Highest quality parts used both inside the engine and out.
- 81 Cubic Centimeter engine for the highest power to weight ratio on the market.
- Patented twin pipe air filtration system and external rocker switch to clean air filter without opening filter box
- Longer handle design to increase ergonomics and better balance the saw for all-day comfort of use.
- Re-designed pull start with more durable internal parts and higher quality nylon cord

In addition to better design features we also kept operator safety in mind by adding:

- One-touch stop button
- Throttle control lock
- Electronic speed limiter
- Wheel guard for the cut off wheel
- Motor stop facility for maintenance purposes

We know that once you use our Sencore S8100 saw you will see for yourself that it is by far the best handheld cut-off saw on the market today.



Before first using this tool, read these operating instructions thoroughly and always observe all safety provisions and instructions. If you have any further questions after reading these operating instructions, contact us directly at 888-313-0004.



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 have been granted:

- PCT/EP2011067574 (separate lubrication)
- US20120152200 (airbox)
- US20100206278
- US20100000846
- US20090007435
- EP2011594
- EP2011991
- EP2011992

Registered brands and trademarks

Sencore® and AutoLube® are registered brands of Sencore Construction Prodcets.
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 the motor devices, we must reserve changes to the delivery scope in form, technology and equipment.
Please understand that no claims can be derived from information and illustrations in these instructions.

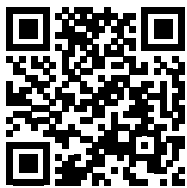
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**HOW TO CHANGE
SPARK PLUG**



**HOW TO CHANGE
CARBURETOR**



**HOW TO CHANGE
STARTER**



**HOW TO CHANGE
PISTON & CYLINDER**

Table of Contents

1 Information about these operating instructions.....5

1.1 Notational conventions used in the operating instructions.....5

2 Warning, instruction and notice icons5

3 Safety provisions.....7

3.1 Correct use8

3.2 General safety notes.....9

3.3 Personal protection equipment (PPE)9

3.4 When fueling up.....9

3.5 In transport.....8

3.6 During assembly, cleaning, maintenance and repair.....9

3.7 Before start-up.....10

3.8 When starting.....10

3.9 During work.....10

3.10 Dust emission11

4 Power tool description.....12

4.1 Scope of delivery12

4.2 Type plate14

4.3 Device views and important operating and function parts14

4.4 Throttle control lock and throttle control.....14

4.5 Function parts for starting14

4.6 Technical data.....15

5 Preparing for use16

5.1 Installing the cut-off blade16

5.2 Installing cut-off blade with 1" inner bore17

5.3 Removing the cutoff blade17

5.4 Adjusting the blade guard18

5.5 Fueling up18

5.6 Adjusting the ribbed belt tension.....19

5.7 Water connection for wet cutting19

5.8 Relocate cutting device from center position to outer position20

5.9 Initial starting / run-in behavior.....22

6 Starting up and switching off the engine22

6.1 Starting process.....22

6.2 Start-up position.....23

6.3 Switching on the engine.....23

6.4 Switching off the engine.....23

7 Power tool use24

7.1 Cut-off blades25

7.2 Permissible cutting area and danger from kickback or pinching.....25

7.3 Working behavior and working technique.....26

7.4 Cutting metal.....26

7.5 Cutting mineral materials.....26

8 Operating and maintenance notes.....27

8.1 Cleaning and care.....27

8.2 Cleaning the screen filter insert of the connection piece28

8.3 Idle/carburetor adjustment.....28

8.4 Air filter maintenance.....29

8.5 Spark plugs check and replacement if required.....30

8.6 Ribbed belt replacement.....31

8.7 Fuel filter replacement33

8.8 Maintenance plan34

8.9 Self-aid advice34

8.10 Shutting down and storage.....35

9 Warranty35

10 Wear parts35

11 Emission control warranty statement45

12 Parts list with Price List.....38

1 Information about these operating instruction

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.



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 everyone 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 S8100. Any utilization of the contents (text and graphics illustrations) – even in excerpts – without our prior written consent shall be forbidden and may be prosecuted.

1.1 Notational conventions used in the operating instructions

Text highlights

- Xxxxx Underlined text marks interim headlines.
- Xxxxx* Text in italics marks advice and notes that facilitate use of the motor device for the user.
- 1 Xxxxx** Numbered text with a black background marks main chapter headlines.
- 1.1 Xxxx** Numbered text with a grey background marks main subchapter headlines.
- Xxxxxxx** 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, instructions, and notice icons

Important: If one or several icons in these operating instructions are centered and directly below a chapter header the notice applies for the entire chapter.

- Be aware of hidden hazards, such as electrical cables, water or gas pipes and flammable substances in the area to be cut!
- 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 operate this power tool when you are fatigued or exhausted. Tiredness and exhaustion may result in loss of control. Be alert – if you get tired or exhausted while operating your power tool, take a break. Working with the power tool can be strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating this power tool.
- Never cut or disturb asbestos, asbestos-containing materials or any other known hazardous materials.
- Be aware of hidden hazards, such as electrical cables, water or gas pipes and flammable substances in the area to be cut!
- 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 power tool.
- Prevent accidents! Only use this power tool if it is in good, safe condition! Always check the power tool prior to use.
- Only use those accessories and attachments that have been supplied and approved for attachment to this power tool by us. Only cut off wheels approved for this power tool must be used as cutting tools.
- Reliable operation and safety of this power tool also depend on the quality of the spare parts used. Use only genuine spare parts. Original spare parts are identical with original production parts and guarantee the best quality in material, dimensions, function and safety. Original parts and accessories are available from your 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 power tool in a safe place and in such a way that it will not pose any danger. Stop the engine. Never let the power tool run unsupervised!

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

3.3 Personal Protective Equipment (PPE)



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



Clothes should be tight-fitting (not loose), but not hindering. When performing any work, wear a working suit of firm materials with sufficient flame inhibition that cannot ignite by flying sparks (materials of leather, cotton after flame-inhibiting treatment or heavy close-meshed linen fabrics). Check the information in the work clothes and ensure that non-flammable materials and no synthetic materials like polyester or nylon are contained in the clothes. The working clothes must never be contaminated with flammable substances such as gasoline or similar products. Do not wear scarves, ties, jewelry or other clothes that may get caught in the cut off wheel, objects in the environment, or the power tool. Tie back long hair and secure it under a hard hat.



Wear a protective hard hat during any work. Use personal hearing protection. Eye and 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.



When wet cutting is not utilized, the operator and bystanders should always wear breathing protection equipment approved by NIOSH/MSHA for the material being cut.

3.4 When Fueling Up



Gasoline is highly flammable. Keep away from open flame and do not spill fuel. Do not smoke at the workplace or at the site of fueling!

- Always switch off the engine before fueling.
- Fire hazard! Never refuel while the engine is 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 fuel and other mineral oil products by wearing protective clothing, eye and face protection. 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 vapor.
- The refueling site should be well ventilated.
- Avoid any soil spillage of fuel or oil (protection of the environment). Use a suitable mat.
- Immediately clean any fuel spilled on the power tool. 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 “Clicking”. 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 labeled containers.

3.5 In Transport



- Before carrying the power tool (even across short distances from one working area to the next), always turn off the engine and wait until the cut off wheel has stopped. Carry the power tool by the top handle and have the cut off wheel point backwards.
- Danger of burns! Do not touch the hot muffler.
- Never carry or transport the power tool with the cut off wheel 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.

Recommendation: Empty the tanks before transport.

- Empty the tanks before shipping.
- Remove cut off wheel before shipping.

Recommendation: 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 open flames.
- Before assembly, cleaning, maintenance and repair, always turn off the engine; the stop dial must be set to "0" and the cut off wheel 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 at performing. Any other work must only be performed by specialist workshops authorized 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! Never modify the power tool, as this may impair safety!

3.7 Before Start-Up



Before start-up, check the entire power tool for operationally safe conditions. In addition to the notes in the operating and maintenance notes (→ chap. 8, page 27), 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 cut off wheel 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, visible damage, improper settings or limited function, the power tool must not be started. In such cases, have the power tool inspected by specialist workshops authorized by us.

3.8 When Starting



- Only use the power tool if it is in completely assembled condition.
- Keep at least 3 meters [approx. 10 feet] distance from the fueling site when starting.

Never start the power tool in closed rooms.

- Hold the tool securely and firmly when starting.

Always start up on level ground and securely hold the power tool.

- Perform the starting process as described in chap. 6 on page 22.
- Check the idle setting after starting. The cut off wheel must not rotate 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 odorless. 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 adequate protective equipment and clothes must be present within 30 meters [approx. 30 yards] 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, water or gas pipes or flammable substances 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 operator mobility 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 others.
 - Ensure good sight and light conditions.
 - Always remain within calling distance of other persons who may administer first aid in emergencies.
 - Schedule work breaks.

- 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 grounds.
- Always hold 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 cut off wheel.
- Do not hold the work piece in your hand and bring it into contact with the wheel.
- Bring the rotating cut off wheel into contact to the work piece.

Never touch the floor or other objects with the cut off wheel running.

- Do not use the power tool to level 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.

3.10 Dust Emissions



Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm.

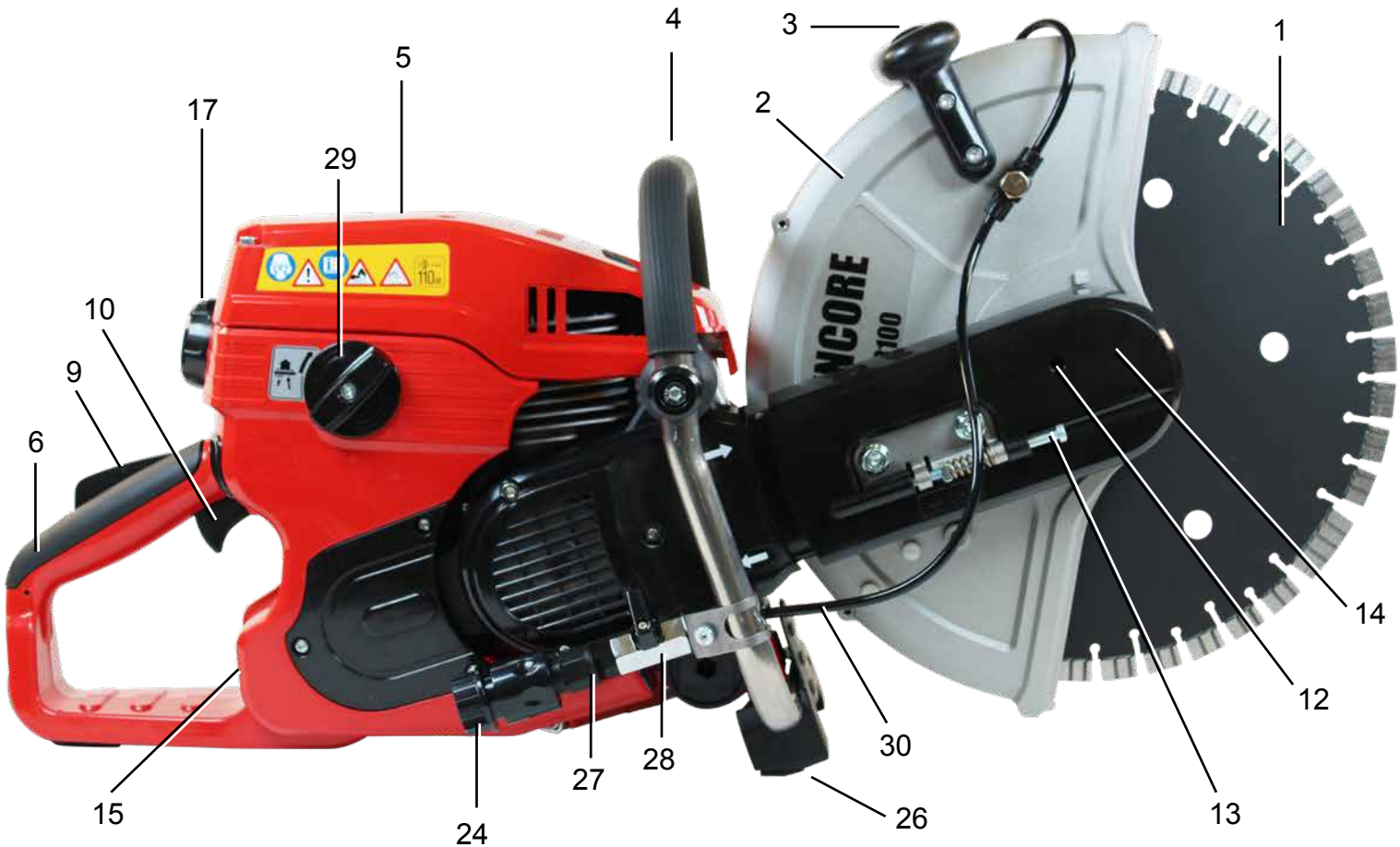
California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

- If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials and make certain to comply with all product warnings and instructions for the safe and effective use of the material being cut.
- Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturer/supplier, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible.
- When the hazards from inhalation of dust, mists and fumes cannot be eliminated through engineering controls such as vacuum and/or water mist, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the material being cut.

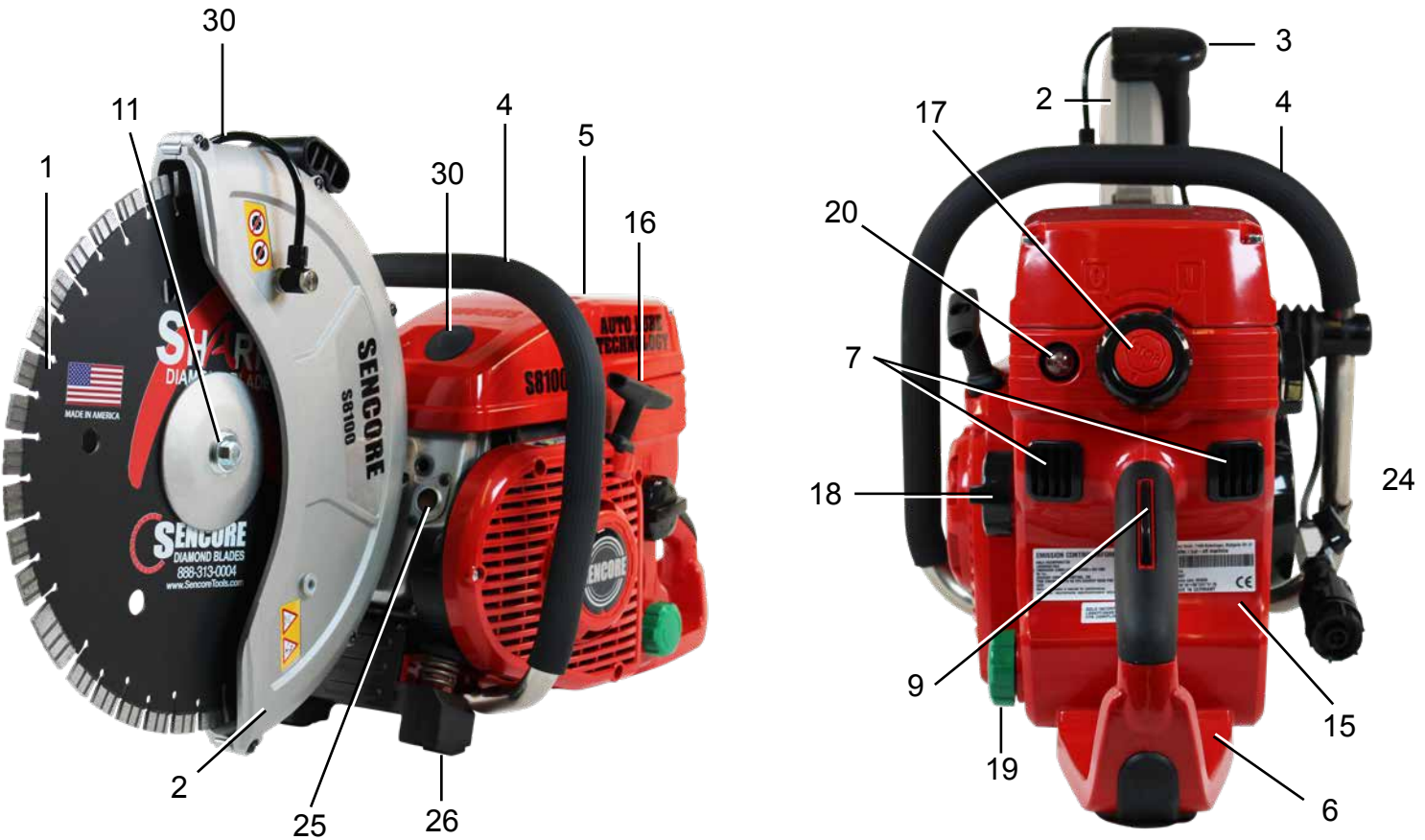
Grinding/cutting/drilling of masonry, concrete and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer.

- When cutting such materials, always follow the respiratory precautions mentioned above.

4.1 Device Views, Important Operating, And Function Parts



1. Cutoff wheel	17. Stop dial / one-touch stop button
2. Wheel guard	18. Fuel tank cap
3. Handle for wheel guard adjustment	19. Oil tank cap, green
4. Top handle	20. Primer
5. Guard	21. Decompression valve
6. Rear handle	22. Idle stop screw "T"
7. Twin-pipe intake openings	23. Carburetor adjustment screws "L" and "H" (for trained service technicians only)
9. Throttle control lock	24. Water coupling connection (wet cutting)
10. Throttle control	25. Muffler (exhaust)
11. Cutoff wheel attachment screw	26. Standing base
12. Cutoff wheel blockage opening	27. Screen filter coupling adapter of the water supply line
13. Ribbed belt tensioning screw	28. Valve lever for water supply
14. Ribbed belt cover	29. Vibration dial
15. Type plate	30. Water supply line (wet cutting)
16. Starter handle	31. Starter and fan housing with cooling air openings



4.2 Scope Of Delivery

- Basic device
- Spindle adapter disk for cut off wheels with 1” Arbor
- Tools: Combination tool (spark plug wrench with screwdriver), blocking pin and additional small screwdriver
- These operating instructions

4.3 Type Plate

a

b

d

Typ 08

Model – no: 88174

Serial – no: 003362

Machine production date: 06/2020

e1*97/68SH3 – IIA*2011/88*0701*01 (II)

c

a:

b:

c:

d:

Type designation

Serial number

Bar code

Year of build

4.4 Throttle Control and Throttle Control Lock



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.

4.5 Funtional Parts For Starting

Starter handle (16) and starter rope: → Chap. 6.3, page 23



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

Starting process: → Chap. 6.1, page 22

To facilitate the starting process, fuel can be pumped into the carburetor. 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 22

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.


4.6 Technical Specification Data

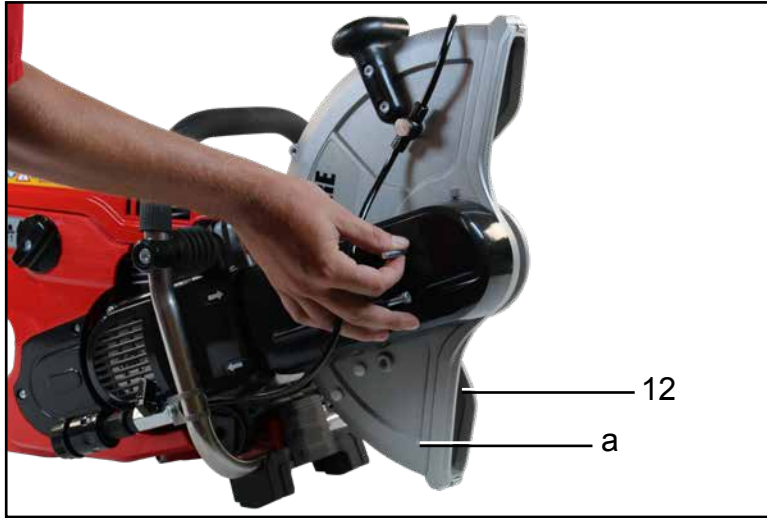
Model	Sencore S8100
Motor	Single-cylinder two-stroke motor, four-channel flushing
Engine capacity	81 cm³ [4.94 cu.in]
Bore Ø / stroke	52 mm / 38 mm [2.0" / 1.5"]
Max. power at RPM	4.0 kW / 9,300 1/min [5.36 HP / 9,300 RPM]
Max. torque at RPM	4.8 Nm / 7,000 1/min [3.54 ft·lbf / 7,000 RPM]
Max. permissible speed	(9,500 ±200) 1/min [(9,500 ±200) RPM] (no load with cutoff wheel)
Idling speed	(2,600 ±200) 1/min [(2,600 ±200) RPM]
Clutch engagement speed	(4,000 ±200) 1/min [(4,000 ±200) RPM]
Fuel tank capacity	0.9 l [30 oz]
Oil tank capacity	0.32 l [10.8 oz]
Fuel mix ratio gasoline:oil	50:1
Electronically controlled separate lubrication	ü
Fuel consumption at max. power (ISO 7293)	1.75 kg/h [3.86 lbs/h]
Specific consumption at max. power (ISO 7293)	460 g/kWh [0.76 lbs/HP·h]
Carburetor, with primer	Position-independent, electronically controlled
Air filter	Paper
Ignition	Electronic digital ignition with index
Cutoff wheel:	Diameter 14"
	Bore diameter 20 mm or 1"
Tightening torque of the attachment screw	(30 ±2) Nm [22.1 ±1.48 ft·lbf]
Minimum flange outer diameter	100 mm [3.9"]
Spindle diameter	20 mm [0.787"]
Maximum spindle RPM	4,550 1/min [4,550 RPM]
Cutting depth, max.	125 mm [4.9"]
Dimensions: height / width / length	430 mm / 267 mm / 775 mm [16.9" / 10.5" / 30.5"]
Weight without tank content and without cutoff wheel	10.5 kg [23.1 lbs]
Sound level ^{1,2} L _{Peq} (EN ISO 19432 Annex B)	98 dB(A)
Sound power level ^{1,2} L _W eq (EN ISO 19432 Annex B)	108 dB(A)
Weighted effective acceleration ^{1,3} a _{h_v,eq} (EN ISO 19432 Annex C): rear handle / top handle	4.5 m/s² / 6.0 m/s² [177 "/s² / 236 "/s²]

¹ In determining the above mentioned 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 [78.7 "/s²]

5.1 Installing The Cut-Off Wheel



 The cut off wheels used must correspond to the specifications from chap. 7.1 on page 25!
The power tool spindle is designed for cut off wheels with an arbor of 20 mm.
Cut off wheels with 1" arbor must only be installed together with the spindle adapter disk. Installation of cut off wheels with 1" arbor: → Chap. 5.2, page 17!
When using cut off wheels with an arbor of 20 mm, no additional spindle adapter disk is required.




- For cut off wheel 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 18
 - Insert blocking pin (a) entirely into the cut off wheel blocking opening (12) to block the spindle.
- Unscrew cut off wheel attachment screw (11). Remove wheel (b) and outer mounting flange (c).



- Put cut off wheel (1) on spindle.
- For cut off wheels with specified rotating direction (arrow on the cut off wheel), observe correct alignment of the cut off wheel during assembly (for rotation direction of the cut off wheel, see above).
- Push on outer mounting flange (c) so that the curved side points southwards, i.e. away from the cut off wheel.
 - Push on wheel (b) and turn in cut off wheel attachment screw (11).
 - Insert blocking pin (a) entirely into the blocking opening (12) and firmly tighten (30 Nm [22.1 ft·lbf]) the cut off wheel 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 Cut-Off Wheel with 1" Arbor

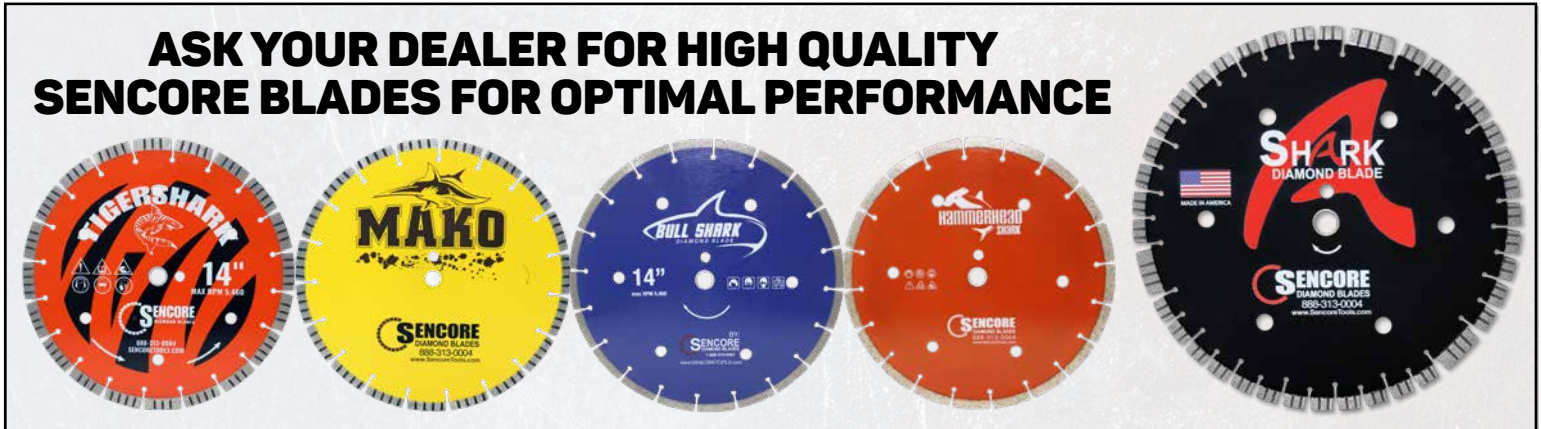
 The cut off wheels used must correspond to the specifications from chap. 7.1 on page 25!
The power tool spindle is designed for cut off wheels with an arbor of 20 mm.
Cut off wheels with 1" arbor must only be installed together with the spindle adapter disk. Installation of cut off wheels with 1" arbor: → Chap. 5.2, page 17!
When using cut off wheels with an arbor of 20 mm, no additional spindle adapter disk is required.



- Installation of cut off wheels with 1" arbor takes place according to chap. 5.1 as of page 16.
 - After applying the cut off wheel on the spindle, however, the spindle adapter disk (e) must be put on the spindle (f) additionally.
 - Put the spindle adapter disk (e) onto the spindle so that it inserts between spindle and inner bore of the cut off wheel.
- The support area of the spindle adapter disk must point outwards in the installed condition, i.e. away from the spindle.
- The correct orientation of the spindle adapter disk is mandatory to directly connect the plane inner area to of the outer mounting flange to the cut off wheel. Only this warrants secure attachment of the cut off wheel.
- Application of the outer mounting flange and all following steps must be performed again according to chap. 5.1.

5.3 Removing The Cut-Off Wheel

- For cut off wheel removal, 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 18
 - Insert blocking pin (a) entirely into the cut off wheel blocking opening (12) to block the spindle.
- Unscrew cut off wheel attachment screw (11).
Remove wheel (b) and outer mounting flange (c) (also see chap. 5.1).
- Remove cut off wheel from the spindle. For cut off wheels with a 1" arbor, the spindle adapter disk also must be removed from the spindle.
 - Put the outer mounting flange back onto the spindle so that the curved side points outward.
 - Put on wheel (b) and turn in the cut off wheel attachment screw (11) again. → Chap. 5.1.
 - Insert blocking pin (a) entirely into the blocking opening (12) and firmly tighten (30 Nm [22.1 ft·lbf]) the cut off wheel 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 The Wheel Guard




The wheel guard (2) can be rotated forward and backward in a limited area.

For adjustment of the wheel guard, the power tool must be in the off position and the cutting wheel must be stopped from rotation. Put the power tool 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 wheel guard adjustment (3), rotate the wheel guard accordingly.

To keep sparks and particles away from the user, the wheel guard always must be rotated forward as far as the working situation permits.

 If the separating device has been installed in the outer position, ensure when adjusting the wheel guard that the water supply line is not clamped and that contact between the cut off wheel and water supply line in operation is excluded.

5.5 Fueling Up





 **Danger to health!**
Direct skin contact with gasoline and breathing in of gasoline fumes must be avoided.

Model S8100 with Auto Lube™.

The S8100 is 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, AutoLube™, Automatic Lubrication).



-  Fuel tank (18) for lead-free midgrade gasoline or lead-free premium gasoline with a minimum pump octane number of 89 (R+M)/2.
-  Do not fill any pre-mixed fuel into the fuel tank (18)!
-  Oil tank (19, green cap) for branded 2 stroke engine oil corresponding to the standard ISO L EGD or JASO FD.
Recommendation:
Use the “Sencore high performance semi-synthetic 2 stroke engine oil”
-  If there is not enough oil in the oil tank, the power tool will automatically run at idle speed 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 refilled.

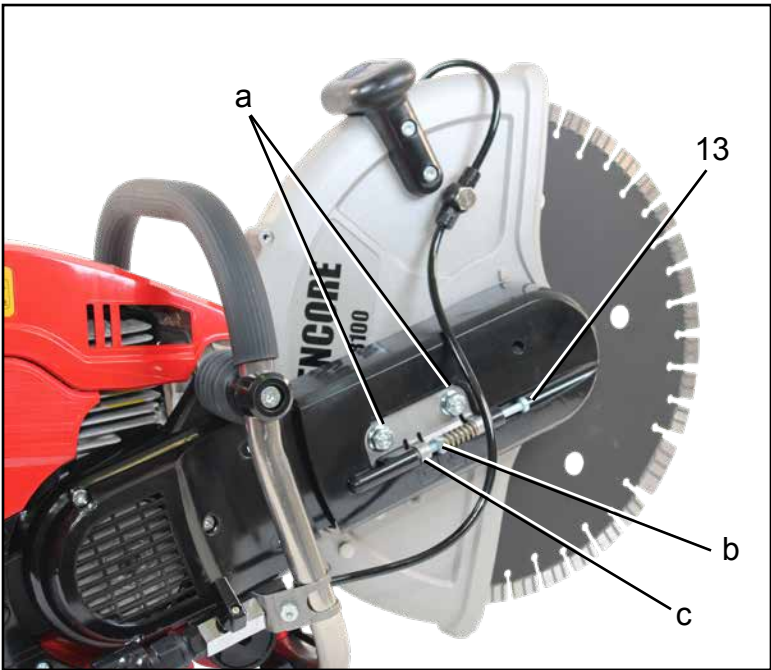
Fill in operating media (gasoline and oil)

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

- Clean the fill-in area well.
- Lay the saw on it’s side so that the fuel tank cap points up.
- Unscrew 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 clicks”.
- After fueling up, clean any splashed operating medium from the power tool.
- Never start or operate the power tool at the site of fueling.

5.6 Adjusting The Ribbon Belt Tension



Generally, the ribbed belt tension must be set correctly when starting the power tool. At initial starting, at re-starting 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 center mark (c), in between “+” and “-”.
- Tighten both attachment nuts (a) again.

5.7 Water Connection For Wet Cutting



Fine dust occurs when cutting mineral materials.

Recommendation: Use the water connection and cut off wheels suitable for wet cutting when cutting mineral materials.

When cutting with the water supply connected, the dust is suppressed, visibility is improved and the cut off wheel 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 cut off wheel run at high speed for another approx. 30 seconds to completely eject the water.



water supply opened
(valve lever parallel)



water supply closed
(valve lever across)

Cleaning the screen filter insert in the coupling piece (27):

➔ Chap. 8.2, page 8.

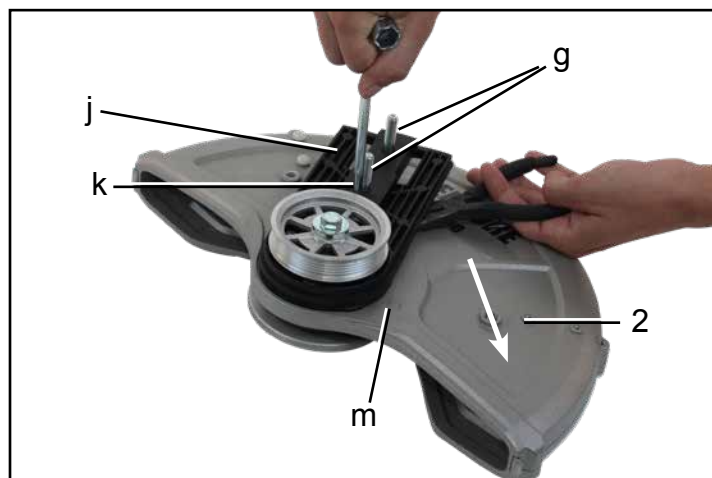
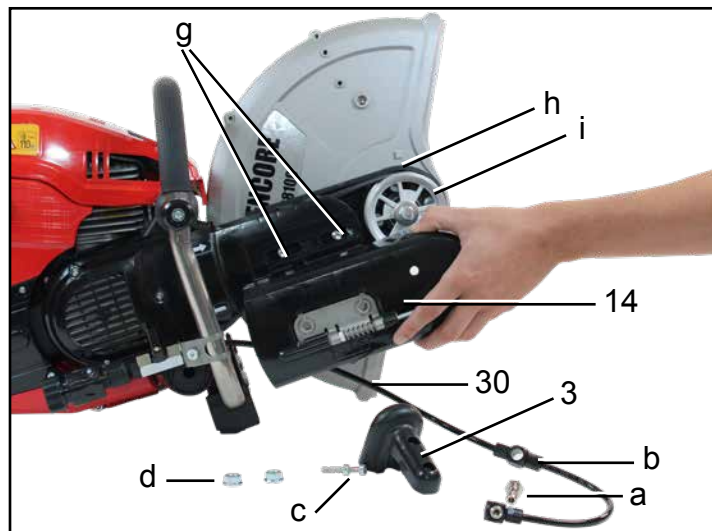
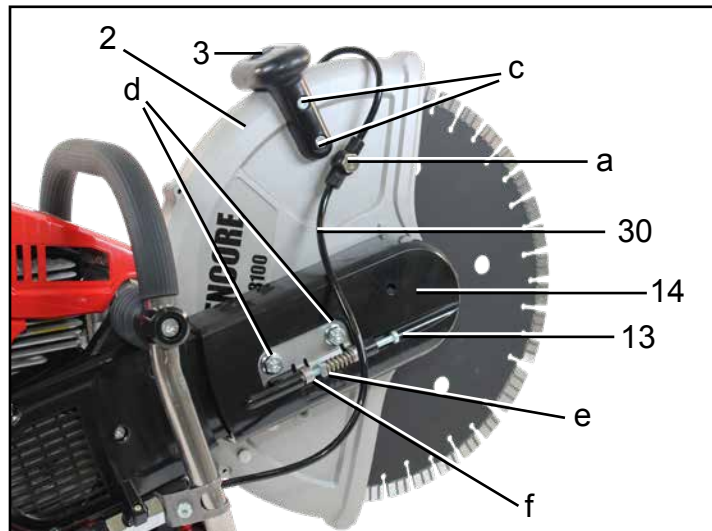
5.8 Relocating cutting device from center position to outer position

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

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



When working with the cut off wheel in the outer position, observe the asymmetric weight distribution! If possible, work in the center position.

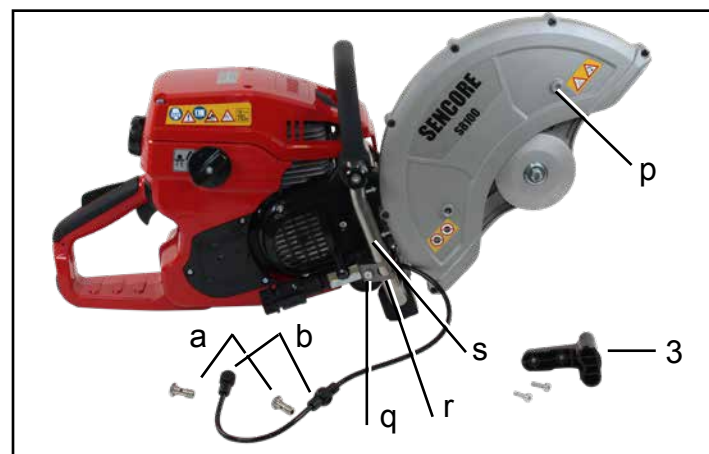
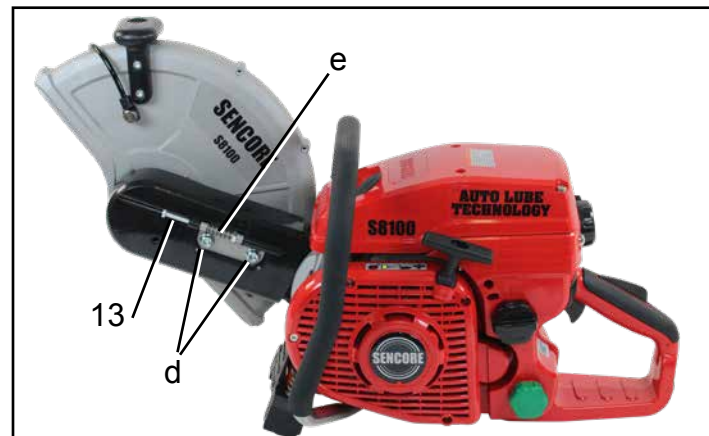
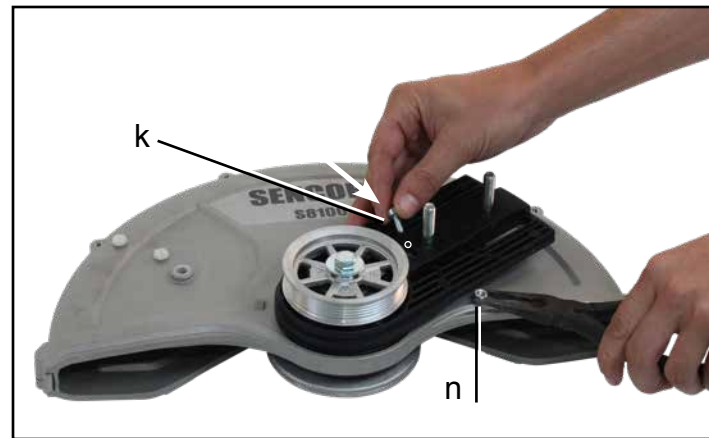


Preparation

- Put the power tool on level ground.
- Remove the cut off wheel: → Chap. 5.3, page 17
- Remove the water supply line (30):
Unscrew the attachment screw (a) of the water supply line on the right and left sides of the wheel guard (2). Remove both adapter pieces (b) including the line from the wheel guard. Put down adapter pieces including line so that the line does not interfere with the following work steps and is not clamped.
- Remove handle for wheel guard adjustment (3). Loosen both attachment screws (c) of the handle for wheel guard 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 center 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).
- Carefully move the wheel guard towards the motor unit. The screws (g) of the assembly flange (j) are moved within the oblong holes.
- Once the wheel guard has been moved towards the motor unit until the ribbed belt support (i) can be pulled through the ribbed belt (h), remove the wheel guard. Observe that the ribbed belt is not damaged by this.

Loosen and turn assembly flange (j)

- Put the wheel guard 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 wheel guard so that the receptacle bore for the screw (k) is located between the center stop and the right stop (m) on the wheel guard. The assembly flange is hard to twist. Securely hold the wheel guard when twisting.



- 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 cut off wheel.
- Check placement of the water supply line when the wheel guard is rotated all the way to the front and correct if required.

Limit wheel guard 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 wheel guard is limited by the stops on the wheel guard 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 center 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 cut off wheel in operation is excluded in all positions of the wheel guard.

- Place the water supply line so that it runs on the outside of the wheel guard and not between the wheel guard 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 wheel guard above the associated threaded holes (p) and screw in the water supply line attachment screws.

Install handle for wheel guard adjustment and cut off wheel again

- Install the handle for wheel guard adjustment (3) again to the wheel guard with the respective attachment screws.
- Install the cut off wheel: ➔ Chap. 5.1, page 16

5.9 Initial Starting | Running Behavior

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 start-up.

6 Starting up and switching off the engine



OBSERVE SAFETY PRECAUTIONS!!!

6.1 Starting Up Process



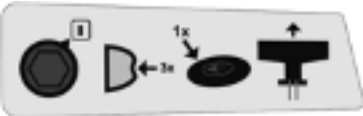
Starting preparations

- Put the power tool level and free from obstacles on the flat floor and observe that the cut off wheel does not touch any objects.
- Put the wheel guard into the best position for the planned use. ➔ Chap. 5.4, page 18

Automatic mixture control for cold and warm start

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

Starting Notes

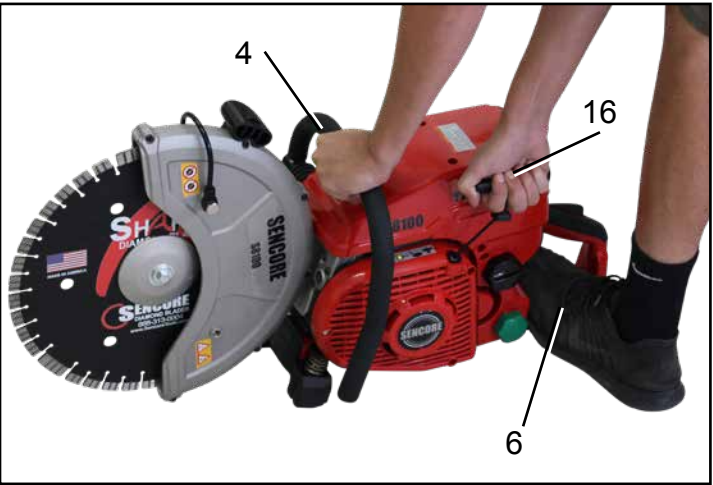


- Turn the stop dial to the operating position “1”.
- Before the first start, operate the primer. ➔ Chap. 4.5, page 14
- Before starting-up, push the decompression valve. ➔ Chap. 4.5, page 14
- Put the power tool in start-up position. ➔ Chap. 6.2, page 23
- Pull on the starter handle. ➔ Chap. 6.3, page 23

6.2 Start-Up Position



Avoid any contact between the cut off wheel and body parts or objects.



- 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 authorized by us.

6.4 Switching Off The Engine

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



Ensure that the cut off wheel has stopped before putting down the power tool.

Recommendation: 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.



Always observe all safety notes and all other information in all 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 8
– Working area inspected and secured	→	Chap. 3.2, page 7, and chap. 3.9, page 10
– Correct cut off wheel firmly installed.	→	Chap. 5.1, page 16, and chap. 7.1, page 25
– Wheel guard in best position	→	Chap. 5.4, page 18
– Cutting device position, preferably center position.....	→	Chap. 5.8, page 20
– Ribbed belt tension correct	→	Chap. 5.6, page 19
– Tool properly fueled	→	Chap. 5.5, page 18
• Starting:	→	Chap. 6 complete, as of page 22
– Starting preparations	→	Chap. 6.1, page 22
o Stop dial in operating position	→	Chap. 6.1, page 22
• During work – generally safe work:	→	Operating instructions complete
– Check idle settings	→	Chap. 8.3, page 28
– Inspecting the working situation.....	→	Chap. 3.9, page 10, Chap. 7.2, page 25, and Chap. 7.3, page 26
– Wet cutting preferred	→	Chap. 5.7, page 19
– Secure working technique.....	→	Chap. 7.3, page 26, chap. 7.4, page 26, and chap. 7.5, page 26
– Operating and maintenance notes complete.....	→	Chap. 8 complete, as of page 27
o Air filter clean	→	Chap. 8.4, page 29
• After work:.....	→	Operating instructions complete
– Cleaning and care.....	→	Chap. 8.1, page 27
– Secure storage of power tool.....	→	Chap. 8.10, page 35
– Maintenance	→	Operating instructions complete

7.1 Cut-Off Wheels



Only use cut off wheels that correspond to the standards ANSI B7.1, EN 12413 and EN 13236 and that are undamaged.

The maximum spindle speed of the power tool is 4,550 min-1 [4,550 RPM].
Only use high speed reinforced cut off wheels marked with a permissible maximum operating speed of at least 4,550 min-1 [4,550 RPM].

For processing of metals (hot cutting) and processing of mineral materials (cold cutting), different cut off wheels are offered. Only use cut off wheels approved for the material being cut. Diamond cut off wheels are only approved for cutting mineral materials. When installing the diamond cut off wheel, always observe the rotating direction indicated on the diamond cut off wheel; otherwise, the cutting effect will reduce quickly from diamond loss.

Rotating direction of the cut off wheel in the installed condition: → Chap. 5.1, page 16

Abrasive resin cut off wheels must not be exposed to moisture. The water connection for wet cutting must not be used when using abrasive resin cut off wheels. Abrasive resin cut off wheels must not be used in high humidity or in rain. The power tool's spindle is designed for cut off wheels with an arbor of 20 mm. Cut off wheels with a 1" arbor must only be installed with the spindle adapter disk supplied with the power tool.

Installation of cut off wheels with 1" arbor: → Chap. 5.2, page 17

- Cut off wheels with other arbor sizes must not be installed! Never modify the arbor of the cut off wheel!
- New cut off wheels 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 cut off wheel.

7.2 Permissible cutting area and danger from kickback or pinching



- The upper part of the cut off wheel must not be used for cutting!
- Only the lower part of the cut off wheel must be used for cutting!



Danger of injury from kickback! Kickback results when the upper part of the cut off wheel is used for cutting. The power tool is pushed towards the user's head uncontrolledly and at high speed

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




Danger of injury from pinching!
Pinching results when the cutting point becomes more narrow (crack or tensioned work piece). 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 cut off wheel is not clamped when cutting any further.
- When starting cutting, carefully move the cut off wheel to the work piece; do not apply it suddenly.
- Never cut several work pieces at once!
- Ensure that no other work piece is touched when cutting.

7.3 Working behavior and working technique

- For complex cutting processes, cutting direction and order of the cuts to be performed must be specified in advance to prevent pinching of the cut off wheel 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 (cutting radius below 5 m [approx. 15 ft]), side pressure, twisting or tilting of the power tool during cutting is forbidden.
- When shortening work pieces use a secure support and secure the work piece against slipping and twisting. The work piece must not be held with your foot or by another person.
- Always be ready for sudden kickback of the work piece and warrant the possibility of securely backing away.
- Make sure that cut off sections cannot fall resulting in injury or property damage.

7.4 Cutting metal

 Always wear breathing protection equipment at dry cutting.

- Metals are heated and melted at the point of contact by the fast rotation of the cut off wheel.
- Rotate the wheel guard 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 cut off wheel 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 or twist.
 - For a secure and smooth cut, it is best to pull or to move the power tool in a controlled fashion. When moving the power tool, do not push the cut off wheel into the material in addition to the thrust caused by the wheel’s rotation.
 - Large diameter 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 large diameter rods. To avoid tilting and for better control of the cutting process, do not let the cut off wheel sink into the material too far. Do not allow the mounting flanges of the cut off wheel fastening to come into contact with the work piece. 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 stress (supported or material in a wall) always has to be grooved slightly on the compression side and then cut from the tension side so that the cut off wheel is not pinched.

7.5 Cutting Mineral Materials

Cutting mineral materials such as concrete creates a lot of fine dust.

Recommendation: Use the water connection of the power tool and cut off wheels suitable for wet cutting when cutting mineral materials.

When cutting with water supply, the dust is reduced, visibility is improved and the cut off wheel service life is increased by the cooling effect of the water.



Water connection for wet cutting: ➔ Chap. 5.7, page 19




- Small pieces of mineral materials may be ejected from the cutting groove by the quick rotation of the cut off wheel.
- Rotate the wheel guard down as far as possible so the cut particles are ejected away from the user.
 - Mark the cutting line and grind a groove of approx. 5 mm [approx. 3/16”] 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.

8 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.

Recommendation: Have all work not described in these operating instructions and all work you are not comfortable with be performed by a specialist workshop authorized 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 carburetor 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 35

8.1 Cleaning and Care



The power tool must be cleaned thoroughly after every use and checked for damage; in particular the cooling air openings in the starter housing must be clean and free.

Inside the wheel guard, material deposits will form over time (in particular when wet cutting), which may impair free rotation of the cut off wheel.

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

- Disassemble cut off wheel and outer mounting flange. ➔ Chap. 5.3, page 17
- Remove material deposits inside the wheel guard with a wood bar or similar.
- Clean spindle and all disassembled parts and check them for damage.
- Clean cut off wheel and check it for damage. If any damage is found, dispose of the cut off wheel properly and immediately so that it is not reused in the next work deployment.
- Inspect the wheel guard for damage. If damaged, replace the wheel guard by an undamaged wheel guard before using the power tool and dispose of the damaged wheel guard properly and immediately.
- Install outer mounting flange, any other parts and cut off wheel again. ➔ Chap. 5.1, page 16

8.2 Cleaning the screen filter Insert of the connection piece



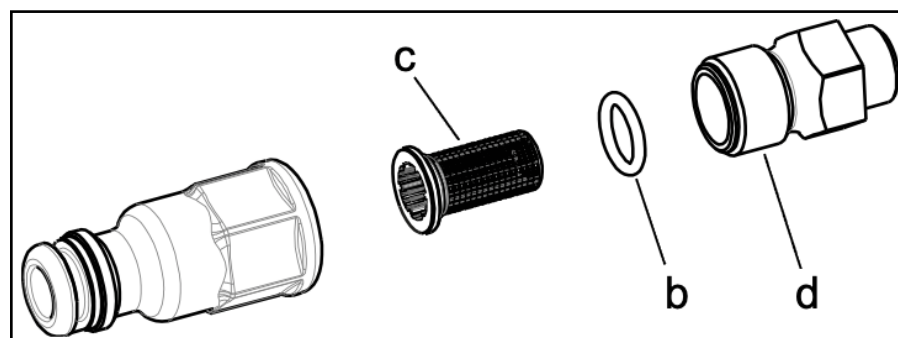
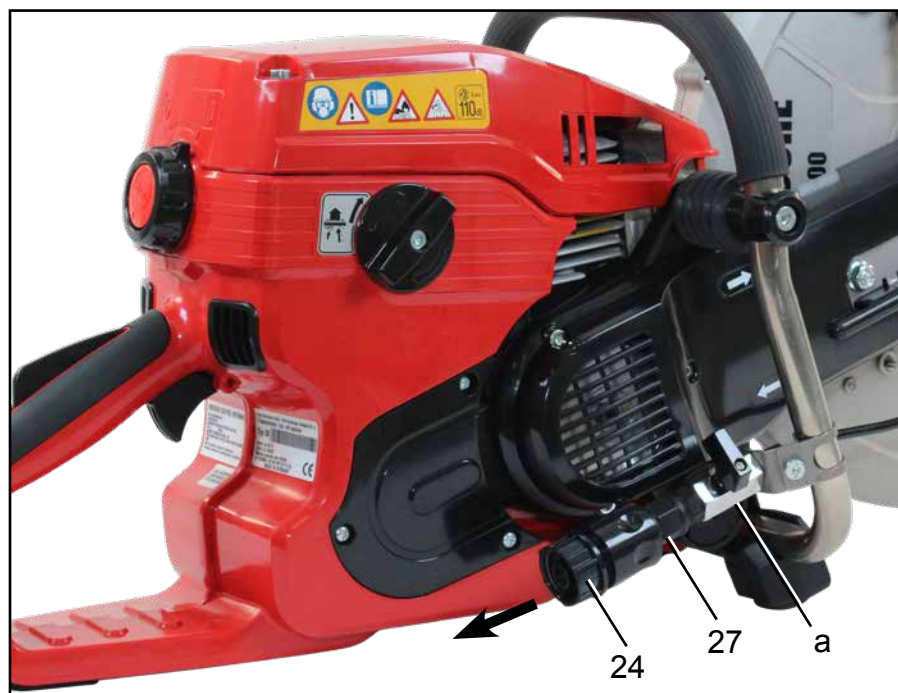
The connection piece for the water supply line for wet cutting is equipped with a screen filter insert to prevent closure of the water supply line by contamination in the supplied water.

Water connection for wet cutting: → Chap. 5.7, page 19



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:

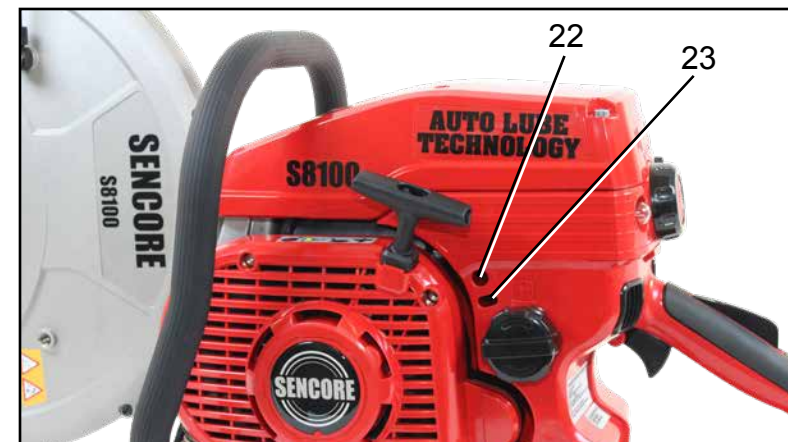


- Switch off the engine and turn the stop dial to "0".
Switching off the engine: → Chap. 6.4, page 23
- Remove the connection of the water supply line. For this, remove the coupling connection (24) from the screen filter connection piece (27) of the water supply line in the direction of the arrow.
- Turn out screen filter connection piece with suitable open-faced spanner from connection (a) of the water supply line.
- Disassemble screen filter connection piece (27) with suitable open-faced spanner.
- Remove screen filter insert (c) from screen filter receptacle (d) of the connection piece.
- Remove seal (b) from the screen filter insert.
- Flush the screen filter insert, the coupling connection, both parts of the screen filter connection piece and the seal with clean water until all residue of contamination has been removed.
- Push the seal (b) again on the screen filter insert.
- Re-insert the screen filter insert with the seal (b) in the screen filter receptacle (d) of the connection piece in the correct direction (see figure).
- Screw together the screen filter coupling piece.
- Screw the screen filter coupling piece into the connection (a) of the water supply line again.
- Push on the coupling connection again.

8.3 Idle/ Carburetor Adjustment



The cut off wheel must not rotate when idling!
The idle position must be inspected every time when taking up work and corrected if required.



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 29

Let the engine warm up before performing adjustments.

To set the idle speed indicated in the technical data (chap. 4.6, page 15), proceed as follows – preferably using a speed meter:

- Idle speed too high (in particular if the cut off wheel 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 carburetor setting cannot be achieved by turning the idle stop screw "T", have the carburetor set by a specialist workshop authorized by us.

8.4 Air Filter Maintenance



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



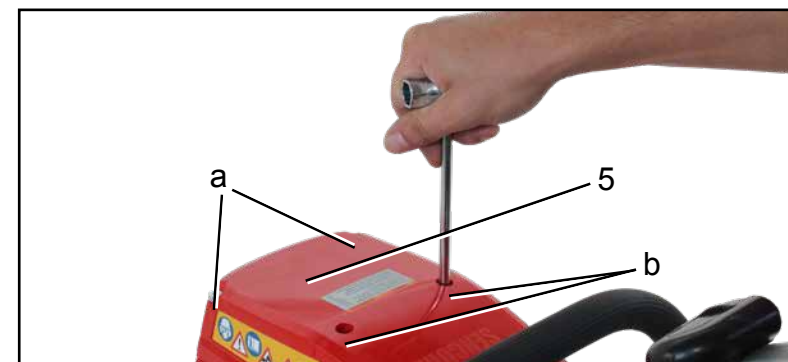
Turn vibration dial (29) to perform rough interim emptying of the air filter during work. The air filter box and air filter are shaken so that loose dust falls off. Slightly tilt the power tool back and let dust fall out of the intake openings. Turn the vibration dial repeatedly if required.

Cleaning the air filter

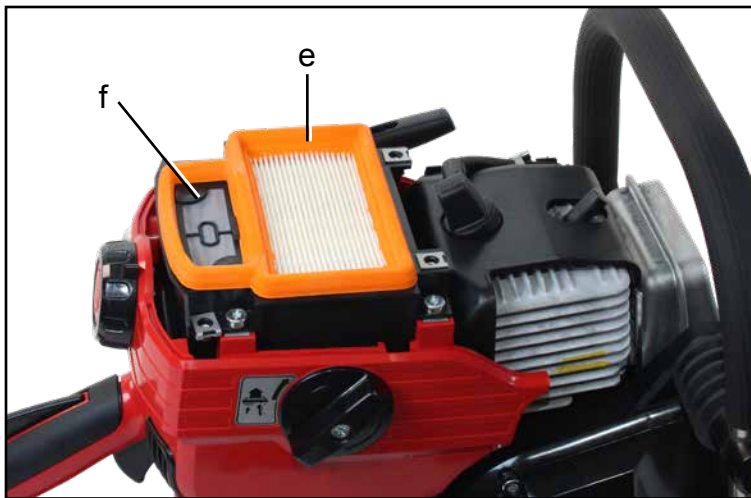
At weekly intervals or when the engine output is clearly reduced, the air filter must be removed and cleaned thoroughly.



Danger of contamination for the filter inside!
Only open the guard in a clean environment.



- Switch off the engine and turn the stop dial to "0".
Switching off the engine: → Chap. 6.4, page 23
- Loosen all four attachment screws (a) and (b) of the guard (5). Remove guard.



! The fine-mesh cover (f) and the air filter (g) must not be cleaned wet or with compressed air.

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

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

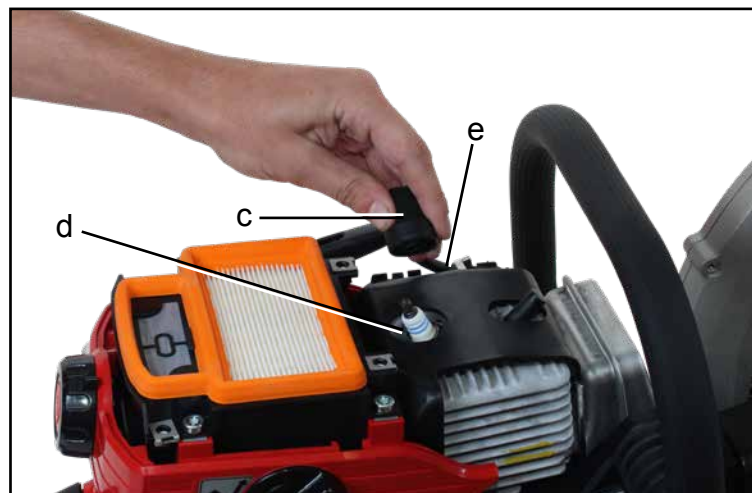
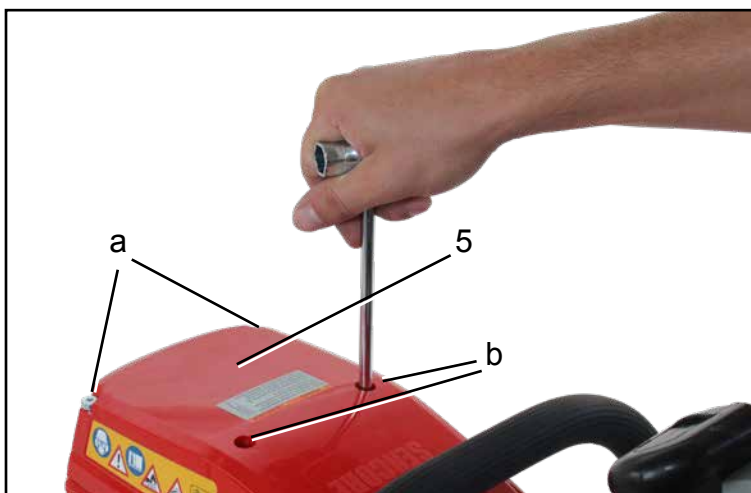
! The cut off wheel must not rotate when idling!
The idle position must be inspected every time when taking up work and corrected if required.

8.5 Spark Plug Check and Replacement if Required



! Danger of contamination for the power tool inside!
Only open the guard 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 23
- Loosen all four attachment screws (a) and (b) of the guard (5). Remove guard.
- Remove spark plug connector (c) from the spark plug (d) below.



Danger of fire from spark formation!

Do not start up the engine with the spark plug (d) unscrewed or the ignition cable (e) removed from the plug

- Unscrew spark plug (d) and dry off well.
- Clean spark plug with dry cloth and check electrodes. There must not be any foreign material 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.



0.5 mm [approx. 0.02"]

- Proper electrode distance: 0.5 mm [approx. 0.02"]

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

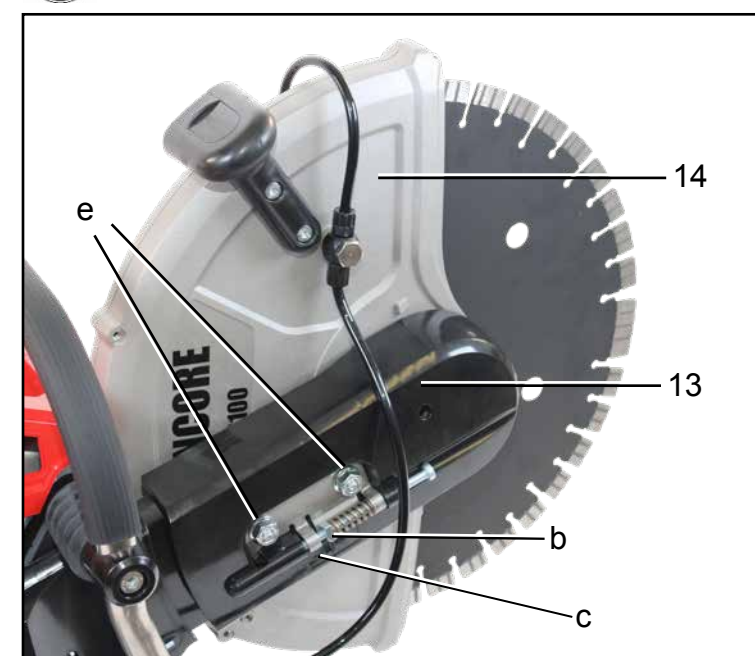
Use of other spark plugs is not allowed!

- 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 authorized by us.
- Screw in spark plug (d) again. Torque: 25 Nm [18.4 ft·lbf]
- Push the spark plug connector (b) onto the spark plug (d) firmly at reattachment.
- Install housing parts again.

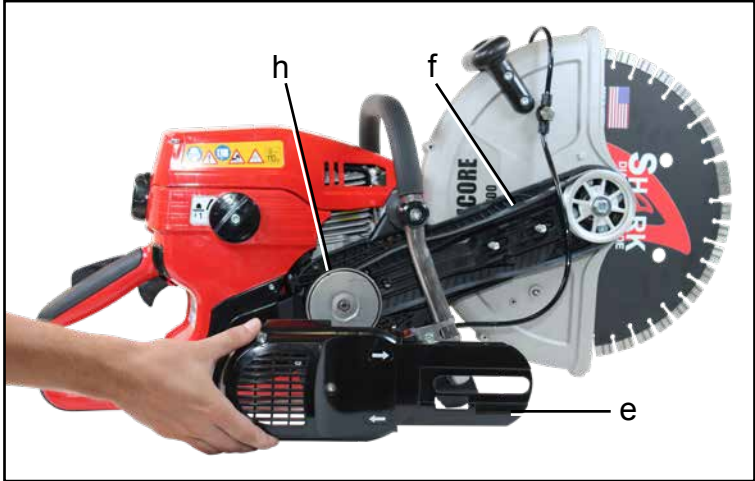
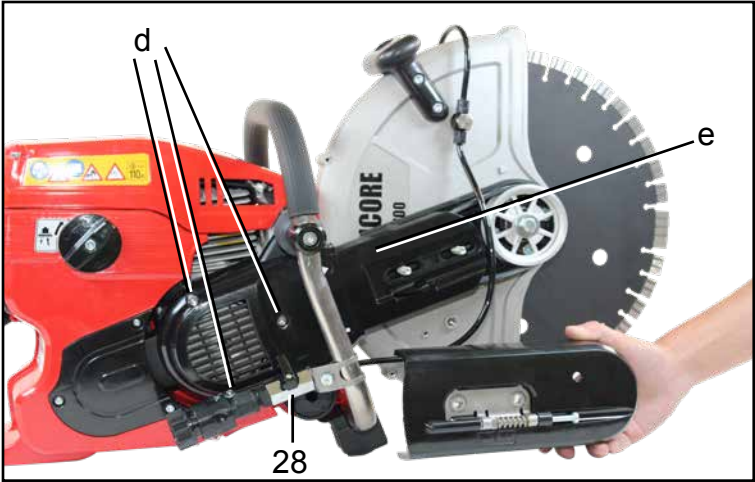
8.6 Ribbed Belt Replacement



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 23
- Shut off water supply to the power tool.
- Put the power tool on level ground.
- 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 center 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).
- 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
- 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 (b) is on the center mark, i.e. between “+” and “-”.
- Tighten both attachment nuts (a) of the ribbed belt cover.
- Close the water supply valve lever, i.e. put the valve lever across the connection piece.

8.7 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 authorized 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

		Once after 5 operating hours	Before and during each working operation	Weekly	Every 50 operating hours	Every 100 operating hours	On demand	At start-up / annually
	Cooling air openings in the starter housing	Clean	X				X	
	Carburetor → Chap. 8.3, page 28	Check idling	X					
		Set idling (screw “T”)					X	
		Set carburetor (screws “L”/”H”) (for specialist workshops only)					X	
	Air filter → Chap. 8.4, page 29	Interim emptying of the air filters	X				X	
		Clean air filter thoroughly		X			X	
		Replace					X	
	Screen filter of the water supply line → Chap. 8.2, page 28	Clean		X			X	
	Spark plug → Chap. 8.5, page 30	Check firm seat of ignition cable and spark plug connector	X				X	
		Check electrode distance and replace spark plug if required			X			X
		Replace				X	X	
	All screws in reach (except for adjustment screws)	Re-tighten	X				X	X
	Operating units (stop button/switch, throttle control, throttle control lock, starter)	Check function	X					
	Entire power tool	Visual condition inspection	X					
		• Check cutoff wheel and muffler for damage.						
		• Check tank cap for tightness						
		• Check ribbed belt tension → chap. 5.6, page 19	X					
		Clean		X			X	X

8.8 Fuel Filter Replacement



The fuel filter in the fuel tank must be replaced as part of the annual customer service in an authorized service center. Furthermore, an authorized service center 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 carburetor

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 22
 - Clean or replace→ Chap. 8.5, page 30
 - Old fuel
 - Empty and clean tank, fuel up with fresh fuel.....→ Chap. 5.5, page 18
 - Cutoff wheel does not accelerate properly
 - Foreign body inside the wheel guard
 - Clean wheel guard→ Chap. 8.1, page 27
 - Ribbed belt tension too low
 - Correctly set ribbed belt tension→ Chap. 5.6, page 20
 - Cutoff wheel rotates in idle operation
 - Idle stop screw “T”
 - Correctly adjust idle stop screw “T”→ Chap. 8.3, page 28
 - Coupling defective
 - Service workshop
 - Bad engine output
 - Air filter clogged
 - Clean air filter thoroughly→ Chap. 8.4, page 29
 - Carburetor 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
 - Replenish water or recover pressure supply
 - Screen filter insert contaminated
 - Thoroughly clean screen filter insert→ Chap. 8.2, page 28
 - Changed noise emission and motor does not reach high speeds
 - Not enough engine oil in the oil tank
 - Add Sencore high performance semi-synthetic 2-cycle engine oil→ Chap. 5.5, page 18

8.10 Shutting down and storage

Before shutting down and storage, the power tool must be cleaned thoroughly and checked for damage. Cleaning and care: → Chap. 8.1, page 27

Only store the power tool in dry rooms. There must not be any open sources of fire or the like nearby. Prevent unauthorized 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 carburetor until the engine goes out. Oil residue from the fuel lubrication may otherwise close the carburetor 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.

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

- Failure to follow the operating instructions.
- Failure to perform required maintenance and cleaning.
- Damage due to improper carburetor settings.
- Normal wear and tear.
- Obvious overload.
- Use of other than approved working tools.
- Application of force, improper treatment, misuse, abuse or accident.
- Overheating damage due to contamination of the fan housing.
- Repair by unauthorized personnel.
- Use of unapproved replacement parts or other than original parts if they caused the damage.
- Use of unsuitable or outdated operating materials.
- Damage due to the usage conditions from renting.

Cleaning, care and adjustment work are not deemed warranty services. Warranty services must be completed at an authorized service center only.

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	• Spark plug
• Air filter	• Starting device
• Fuel filter	• Cut off wheel
• Clutch	• Belt

11 Wear Parts

11.1 Your Warranty Rights and Obligation

The EPA (The US Environmental Protection Agency) and Sencore, are pleased to explain the emissions control system warranty on your 2013 and later small nonroad engine. In the U.S. all new small nonroad engines must be designed, built, and equipped at the time of sale to meet the U.S. EPA regulations for small nonroad engines. The engine must be free from defects in materials and workmanship which would cause it to fail to conform with U.S. EPA regulations and standards for the first two (2) years of use from the date of sale to the ultimate purchases. Sencore must warrant the

emission control system on your small nonroad engine for the period of time listed below provided there has been no abuse, neglect, or improper maintenance of your small nonroad equipment engine. The emission control system includes parts such as the carburetor and the ignition system. The emissions warranty may also include hoses, connectors, and other emission related components. Where a warrantable condition exists, Sencore. will repair your small nonroad engine at no cost to you. Expenses covered under warranty include diagnosis, parts and labor.

11.2 Manufacturer’s Warranty Coverage

The Sencore S8100 engines are warranted for two (2) years. If any emission related part on your engine (as listed above) is defective, the part will be repaired or replaced by your nearest authorized servicing dealer.

11.3 Owner’s Warranty and Responsibilities

As the small nonroad engine owner, you are responsible for the performance of the required maintenance listed in your instruction manual. Sencore. recommends that you retain all receipts covering maintenance on your small nonroad engine, but Sencore. cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance. As the small nonroad engine owner, you should, however, be aware that Sencore. may deny you warranty coverage if your small nonroad engine or a part of it has failed due to abuse, neglect, improper maintenance, unapproved modifications or the use of parts not made or approved by the original equipment manufacturer. You are responsible for presenting your small nonroad engine to a Sencore. authorized service center dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized servicing deale.

11.4 Coverage by Sencore

Sencore warrants to the ultimate purchaser and each subsequent purchaser that your nonroad equipment engine will be designed, built, and equipped at the time of sale to meet all U.S. EPA applicable emission regulations and standards. Sencore also warrants to the ultimate purchaser and each subsequent purchaser that the engine is free from defects in materials, design, and workmanship which cause the engine to fail to conform with applicable U.S. EPA emission for a period of two (2) years.

11.5 Warrenty Period

If any emissions related component on your engine is found to be defective during the emissions warranty period Sencore will replace that part at no charge to the owner. The warranty period begins on the date small nonroad engine is delivered. Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of “repair or replace as necessary” shall be warranted for two (2) years. Any warranted part which is scheduled for replacement as required maintenance shall be warranted for the period of time up to the first scheduled replacement point for that part.

11.6 Length of Coverage

Sencore warrants to the initial owner and each subsequent purchaser that the engine is free from defects in materials and workmanship which cause the failure of a warranted part for a period of two (2) years

11.7 What is Covered

Repair or replacement of any warranted emissions part will be performed at no charge to the owner at an approved Sencore servicing dealer. If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized servicing dealer.

Listed below are the parts covered by the emission components defect warranty. Some of the parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement point for that part.

- Fuel metering system
 - Carburetor and internal parts
 - Fuel filter, if applicable
 - Throttle stopper, if applicable
 - Choke system, if applicable
- Air induction system
 - Air cleaner plate, air filter
 - Air cleaner case, intake manifold
- Ignition system
 - Spark plugs
 - Flywheel magneto
 - Ignition coil
- Miscellaneous items used in the above systems
 - Fuel hoses
 - clamps and sealing gaskets

11.8 Diagnosis

The owner shall not be charged for diagnostic labor which leads to the determination that a warranted part is defective, if the diagnostic work is performed at an approved Sencore servicing dealer. However, if a warranty claim is made and the machine is tested as non-defective Sencore will charge you for the cost of the emission test. Mechanical diagnostic will be performed at an authorized Sencore servicing dealer. Emission testing may be performed at Sencore or any independent emissions test laboratory.

11.9 Consequetial Dmages

Sencore may be liable for damages to other engine components caused by the failure of a warranted part still under warranty.

11.10 Limitations

Any failures caused by abuse, improper maintenance, or neglect are not covered. Repairs or replacements not conforming to Sencore specifications that affect the performance or durability, or other modifications not approved in writing by Sencore.

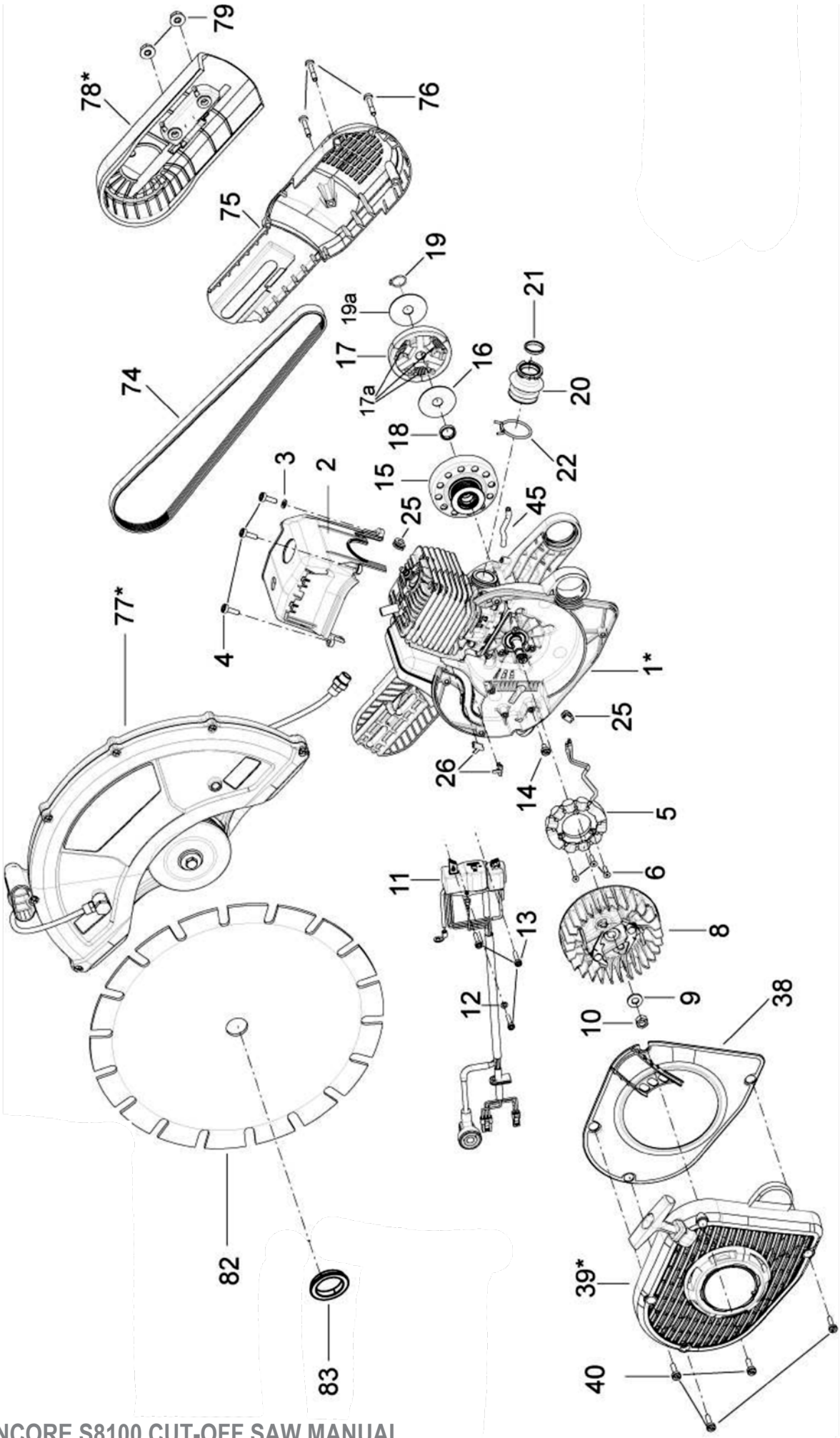
Sencore is not liable for any failures of warranted emission components caused by the use of add on or modified parts.

11.11 How to Make A Claim

Bring the product to any Sencore authorized service center along with proof of purchase. If you have questions regarding to how to make an emissions warranty claim or your warrant rights you should contact the nearest authorized servicing dealer.

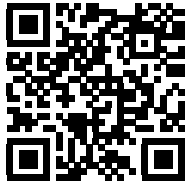
11.1 Maintenance Statement

The owner of this product is responsible for all required maintenance as stated in the instruction manual.



Pos. No.	Part No	Quantity	Cut-Off Machine; Engine and Drive Unit
1*	S-21-00-676	1	Engine
2	S-80-73-302	1	Cylinder cover
3	S-00-30-108	1	Washer
4	S-00-18-336	3	Screw
5	S-23-00-447	1	Generator
6	S-00-13-287	3	Screw
8	S-24-00-328	1	Flywheel
9	S-00-72-145	1	Circclip
10	S-00-20-145	1	Nut
11	S-23-00-696	1	Ignition
12	S-00-30-101	1	Washer
13	S-00-18-327	3	Screw
14	S-00-18-334	1	Screw
15	S-35-00-483	1	Clutch drum
16	S-60-42-850	1	Washer
17	S-35-00-470	1	Centrifugal clutch incl. (-> 17, 17a)
17a	S-00-73-470	3	Clutch spring (-)
18	S-00-33-429	1	Spacer tube
19	S-00-55-161	1	Circclip

Pos. No.	Part No	Quantity	Cut-Off Machine; Engine and Drive Unit
19a	S-60-45-498	1	Clutch cover disc
20	S-60-63-324	1	Manifold
21	S-60-43-137	1	Suction hose
22	S-00-73-451	1	Clamp
25	S-00-66-335	2	Grommet
26	S-00-66-678	2	Clamp
38	S-60-73-541	1	Air guide
39*	S-26-00-257	1	Starter
40	S-00-18-337	4	F.h. screw
45	S-00-64-245	1	Impulse hose
74	S-00-57-114	1	Belt
75	S-60-73-710	1	Cover clutch
76	S-00-18-460	3	Screw
77*	S-33-00-114	1	Drive unit
78*	S-61-00-338	1	Cover drive unit
79	S-00-24-106	2	Nut
83	S-60-31-810	1	Adapter 1"



HOW TO CHANGE
AIR FILTER



HOW TO CHANGE
DECOMPRESSION
VALVE



HOW TO CHANGE
CARBURETOR



HOW TO CHANGE
SPARK PLUG



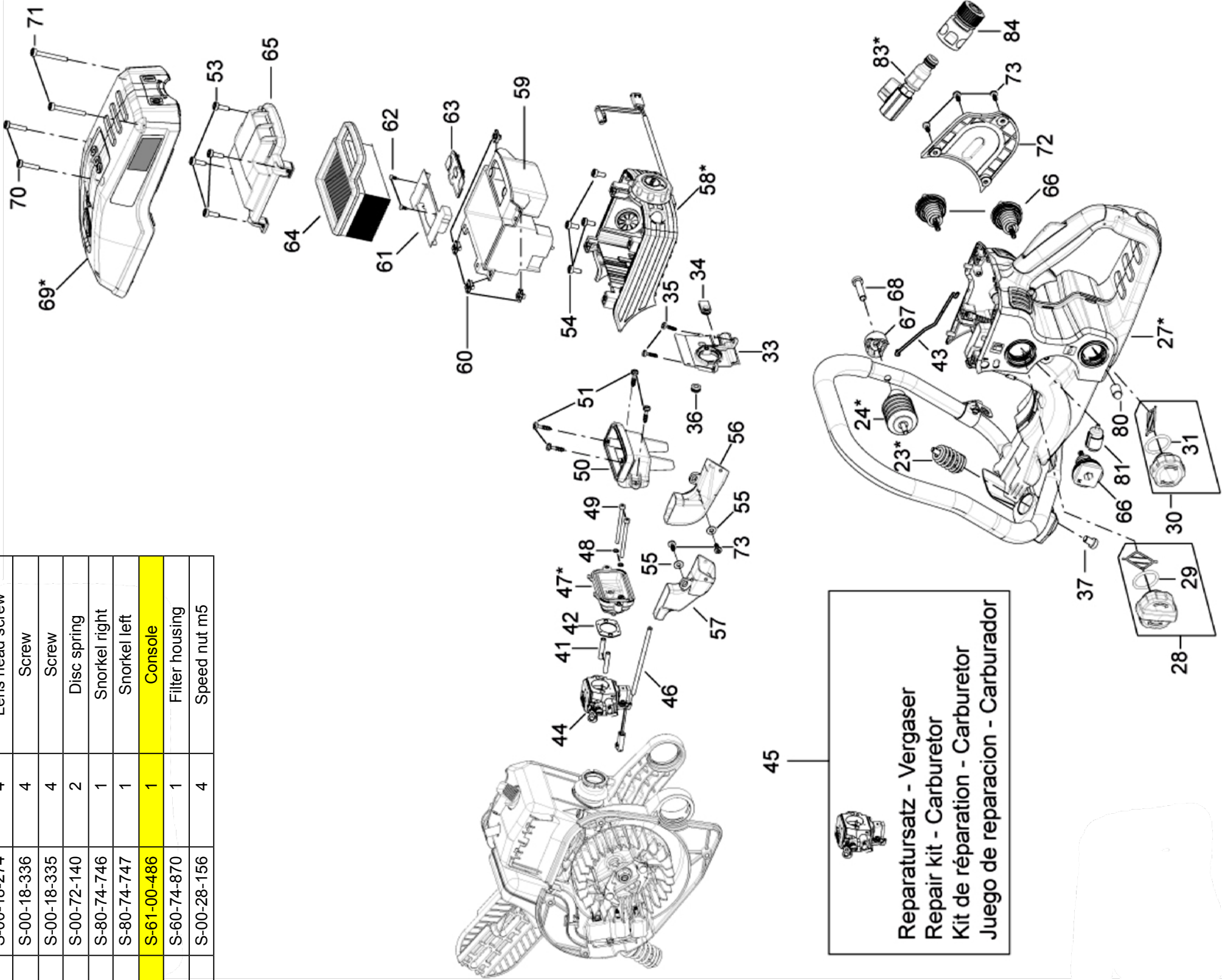
HOW TO CHANGE
STARTER



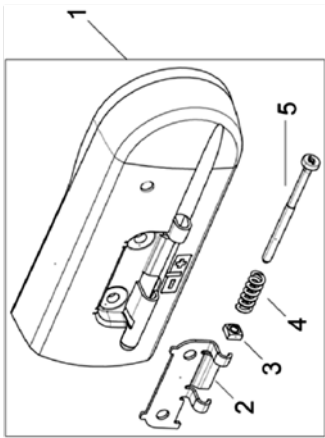
HOW TO CHANGE
PISTON & CYLINDER

Pos. No.	Part No.	Quantity	Grip Unit
23*	S-63-00-273	1	Support
24*	S-63-00-275	1	Support
27*	S-61-00-497	1	Grip
28	S-27-00-240	1	"Tank lid incl. (-> 28, 29"
29	S-00-62-347	1	O-ring <-)
30	S-27-00-241	1	"Tank lid incl. (-> 30, 31"
31	S-00-62-347	1	O-ring <-)
33	S-60-74-542	1	Flange ring
34	S-80-63-249	1	Cable grommet
35	S-00-18-355	2	Screw
36	S-00-66-429	1	Grommet
37	S-00-10-362	1	F.h. screw
41	S-00-64-328	2	Spacer tube
42	S-20-61-444	1	Gasket carburettor
43	S-20-36-285	1	Throttle linkage
44	S-23-00-874	1	Carburetor
45	S-05-10-796	1	Repair kit - Carburetor
46	S-00-64-246	1	Hose
47*	S-23-00-871	1	Expansion chamber
48	S-00-34-152	2	Circlip
49	S-00-18-455	2	Screw
50	S-23-00-872	1	Suction elbow
51	S-00-18-274	4	Lens head screw
53	S-00-18-336	4	Screw
54	S-00-18-335	4	Screw
55	S-00-72-140	2	Disc spring
56	S-80-74-746	1	Snorkel right
57	S-80-74-747	1	Snorkel left
58*	S-61-00-486	1	Console
59	S-60-74-870	1	Filter housing
60	S-00-28-156	4	Speed nut m5

Pos. No.	Part No.	Quantity	Grip Unit
61	S-80-74-772	1	Screen
62	S-00-13-285	2	Screw
63	S-25-00-771	1	Screen insert
64	S-25-00-793	1	Main filter
64	S-25-00-794	10	Main filter
64	S-25-00-795	20	Main filter
65	S-25-00-510	1	Filter cover
66*	S-63-00-274	3	Spring support
67	S-60-74-832	1	Clamp
68	S-00-10-264	1	Screw
69*	S-61-00-240	1	Cover
70	S-00-18-338	2	F.h. screw
71	S-00-18-389	2	F.h. screw
72	S-60-74-453	1	Cover
73	S-00-18-361	5	Screw
80	S-67-00-121	1	Oil strainer
81	S-27-00-135	1	Filter fuel pick-up
83*	S-00-65-324	1	Connection
84	S-00-65-325	1	Hose coupling

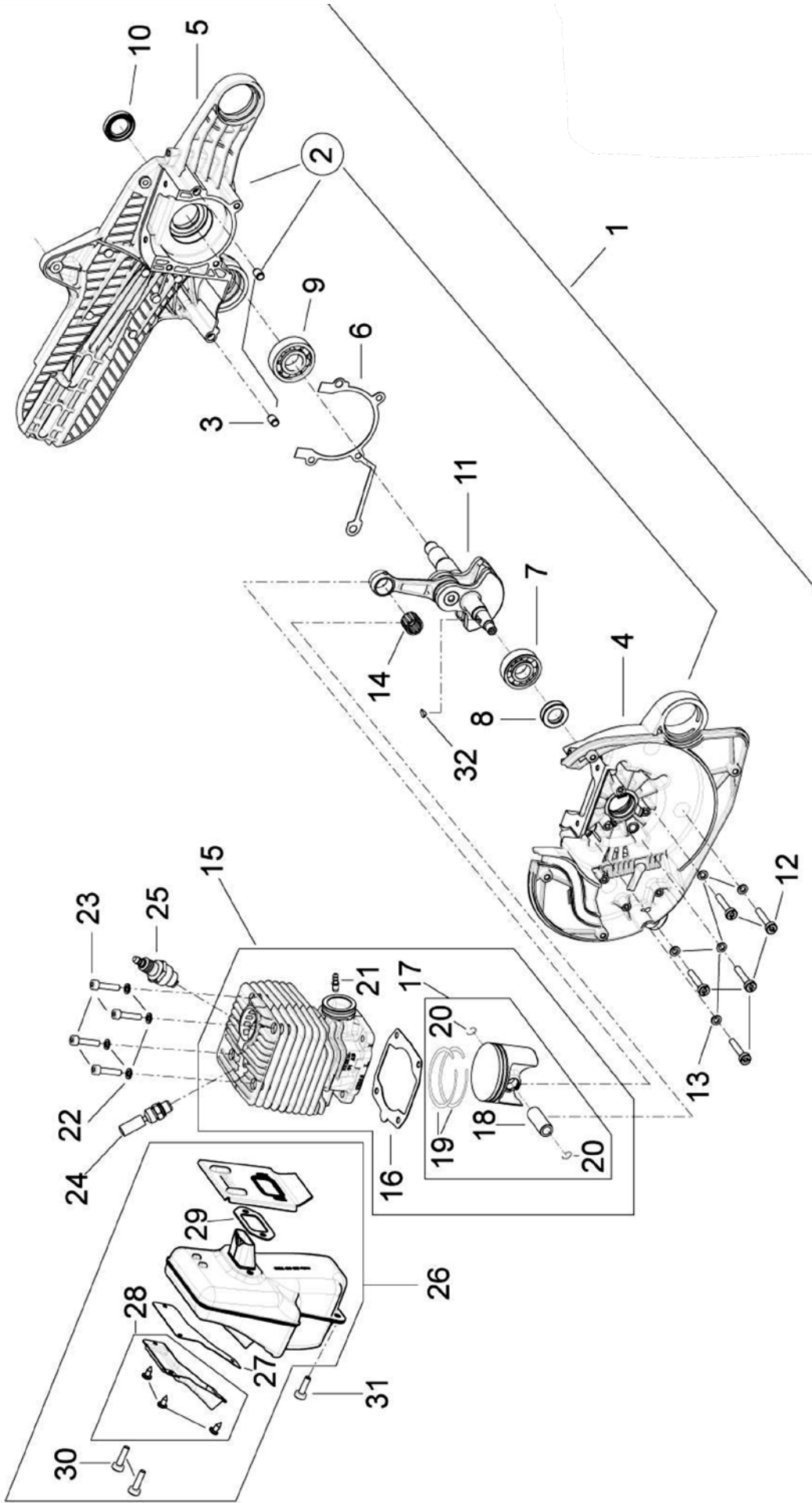


Sencore S8100 |
Cut-Off Assembly
Cover Drive Unit

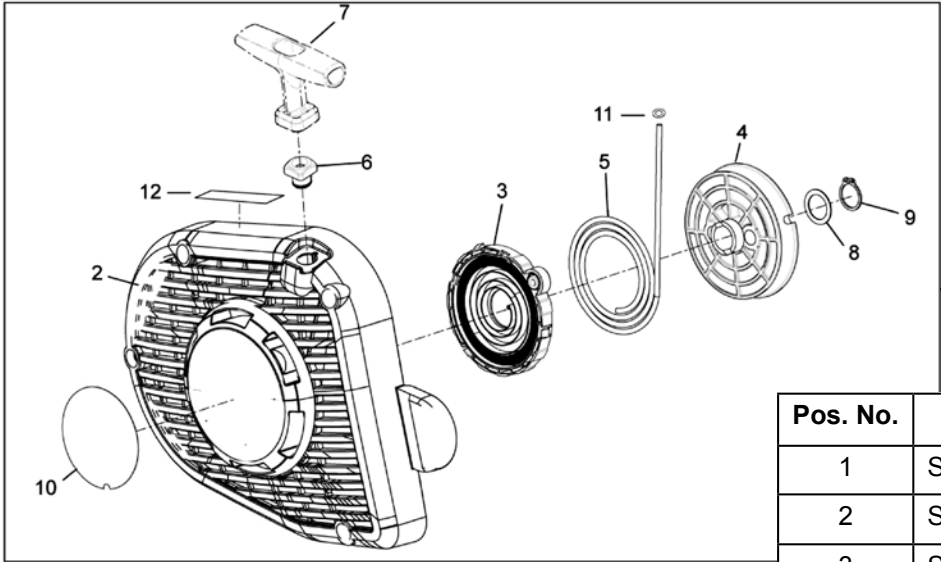


Pos. No.	Part No.	Quantity	Assembly Starter Drive Unit
1	S-61-00-338	1	Cover drive unit incl. (-> 1 - 5
2	S-60-43-846	1	Plate tensioning
3	S-00-20-142	1	Nut
4	S-00-73-162	1	Spring tensioning
5	S-00-18-438	1	Screw M6x90 TX25 <-)

14" Sencore S8100 | Cut-Off Assembly Engine Parts

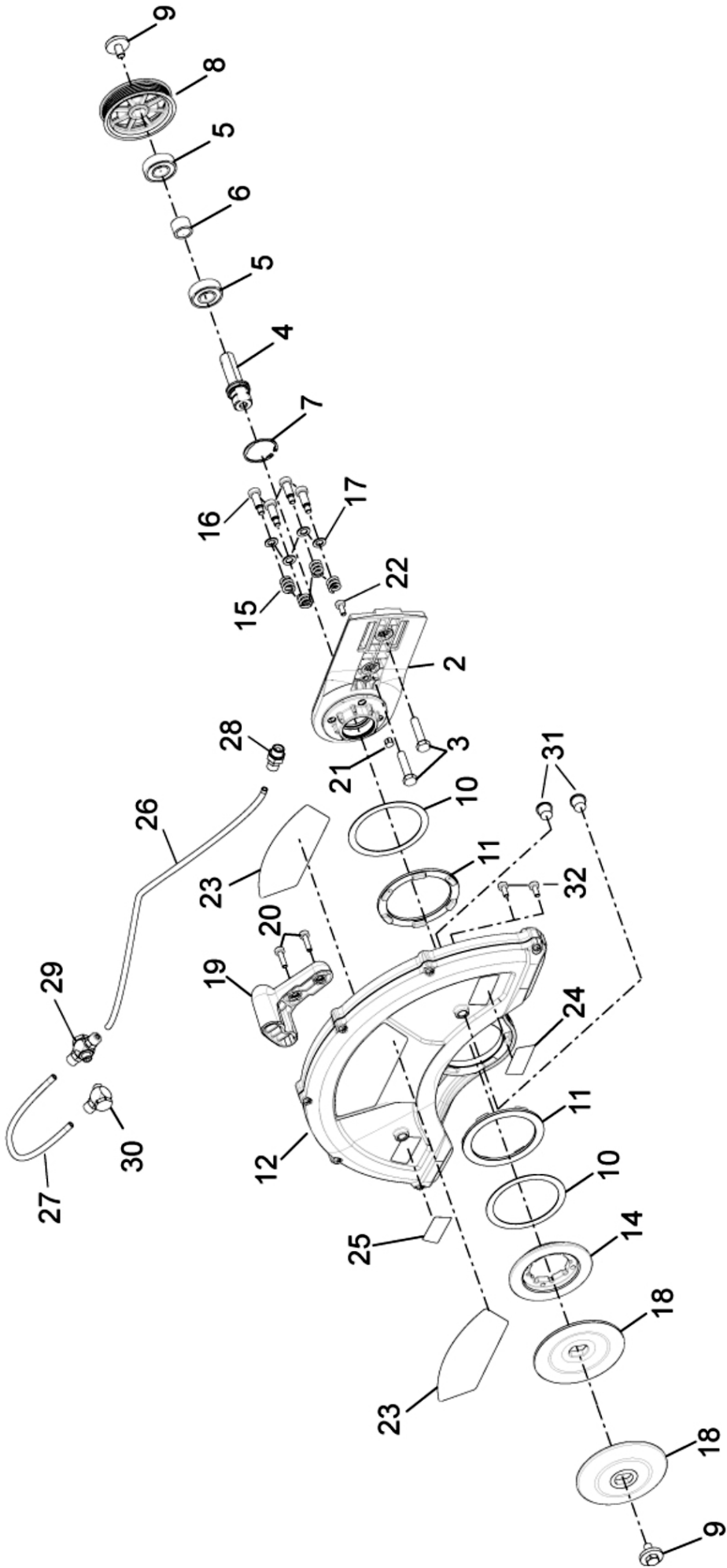


Pos. No.	Part No.	Quantity	Assembly Engine
1	S-21-00-676	1	"Engine incl. (-> 1 - 32"
2	S-21-00-677	1	Crankcase incl. (-> 2 - 5
3	S-00-42-196-25	2	Sleeve
4	S-60-11-430	1	Crankhousing ignition side
5	S-60-11-431	1	Crankhousing outlet side <-)
6	S-20-61-531	1	Gasket crankcase
7	S-00-50-102-1	1	Ball bearing
8	S-00-54-159	1	Oil seal
9	S-00-50-202	1	Ball bearing
10	S-00-54-143	1	Oil seal
11	S-22-00-684	1	Crankshaft
12	S-00-18-339	5	F.h. screw
13	S-00-34-201	5	Circlip
14	S-00-52-236	1	Needle cage
15	S-22-00-211	1	"Cylinder + piston, repair kit incl. (-> 15 - 21"
16	S-20-61-532	1	Cylinder foot gasket
17	S-22-00-212	1	"Piston incl. (-> 17, 20"
18	S-20-31-233-25	1	Piston pin
19	S-20-48-258	2	Piston ring
20	S-00-55-297	2	Safety ring <-)
21	S-00-67-120-25	1	Impulse connection <-)
22	S-00 34 201	4	Circlip
23	S-00-10-604	4	Screw
24	S-28-00-881	1	Decompression valve
25	S-23-00-730	1	Spark plug
26	S-25-00-758	1	"Exhaust incl. (-> 26 - 30"
27	S-20-48-320	1	Spark arrestor
28	S-25-00-759	1	Spark arrestor screen
29	S-20-61-536	1	Exhaust gasket
30	S-00-18-341	2	Screw <-)
31	S-00-18-336	1	Screw
32	S-00-75-101	1	Woodruff key <-)



Sencore S8100 |
Cut-Off Assembly
Starter Parts

Pos. No.	Part No.	Quantity	Assembly Starter
1	S-26-00-257	1	"Starter incl. (-> 1 - 12"
2	S-26-00-234	1	Starter housing
3	S-26-00-353	1	Rewind spring
4	S-60-74-923	1	Rope pulley
5	S-00-63-181	1	Starter rope 4x940
6	S-20-74-640	1	Rope guide
7	S-20-74-361	1	Starter grip
8	S-00-31-473	1	Washer 15x21x0,5
9	S-00-55-136	1	Circlip
10	S-00-68-459	1	Decal starter
11	S-00-72-148	1	Disc spring
12	S-00-68-336	1	Sticker <-)

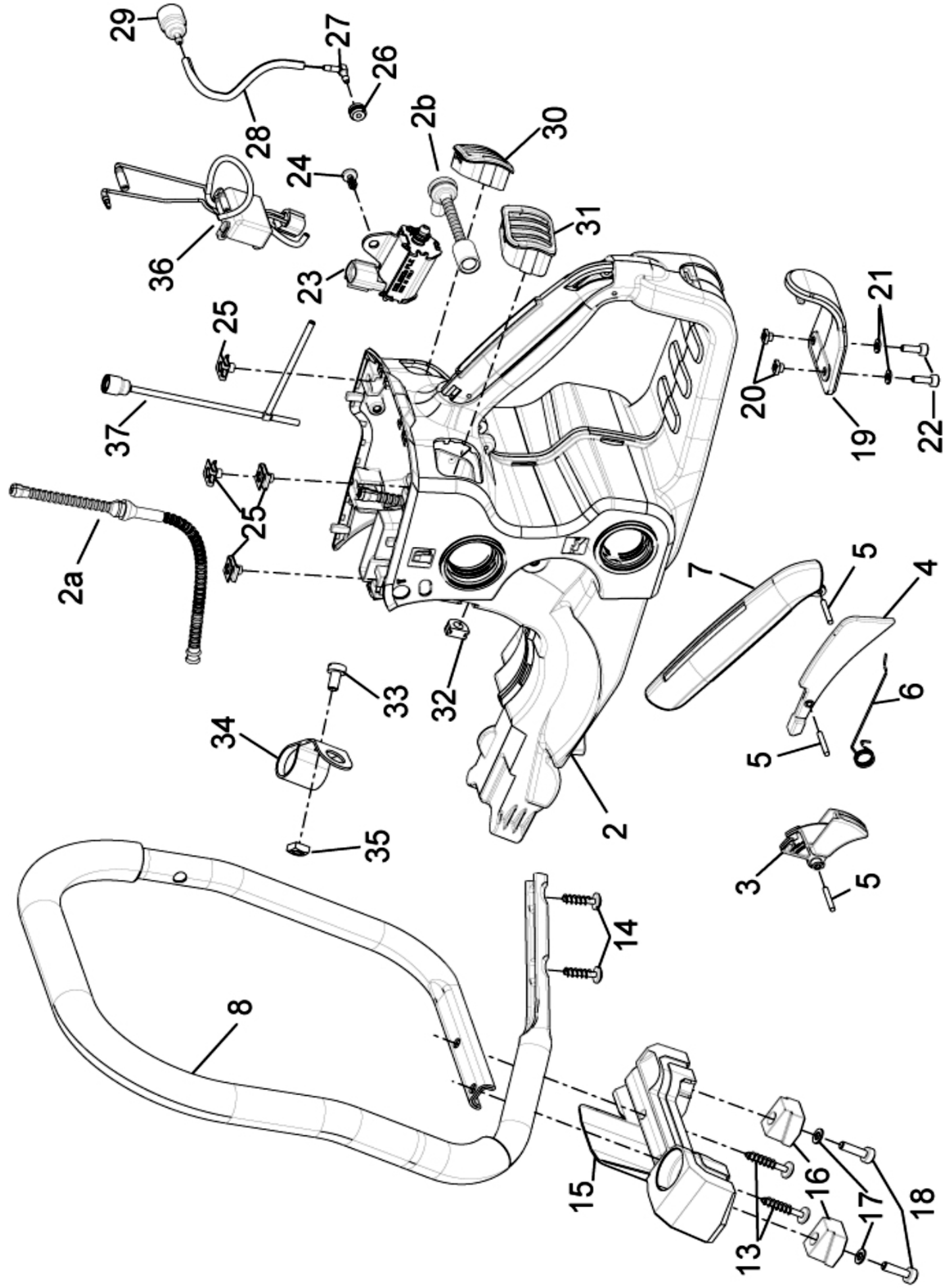


Pos. No.	Part No.	Quantity	Assembly Drive unit
1	S-33-00-114	1	Drive unit incl. (-> 1 - 30
2	S-20-11-861	1	Drive unit carrier
3	S-00-12-259	2	Hex. Screw
4	S-60-31-478	1	Shaft bladedrive
5	S-00-50-151	2	Ball bearing
6	S-00-33-302	1	Spacer ballbearing
7	S-00-55-106	1	Circlip 35
8	S-60-11-436	1	Belt pulley 12" / 14"
9	S-00-10-172	2	Screw
10	S-00-31-442	2	Sliding disc
11	S-80-74-755	2	Slide ring
12	S-81-00-117	1	Sa guard mg 14"
13	S-00-55-143		Circlip
14	S-60-11-440	1	Pressure ring
15	S-00-73-161	4	Spring blade-carrier
16	S-00-18-135	4	Screw blade carrier
17	S-00-31-396	4	Washer
18	S-20-16-459	2	Clamping flange
19	S-60-74-804	1	Guard adjustment knob
20	S-00-18-337	2	F.h. screw
21	S-00-24-107	1	Nut
22	S-00-18-335	1	F.h. screw
23	S-00-68-450	2	Decal guard 14"
24	S-00-68-454	1	Decal guard right
25	S-00-68-453	1	Decal guard left
26	S-00-65-321-350	0,350 m	Hose 6/4 mm black
27	S-00-65-321-200	0,200 m	Hose 6/4 mm black
28	S-00-65-326	1	Screwing 1/4"x6/4
29	S-00-65-320	1	T-screwing 1/4"x6/4
30	S-00-65-322	1	T-screwing 1/4"x6/4
31	S-00-36-193-A	2	Lock

ASK YOUR DEALER FOR
SENCORE BRAND
AIR FILTERS
AVAILABLE INDIVIDUALLY
OR IN PACKS OF TEN



Sencore S8100 | Cut-Off Assembly Grip Parts



Pos. No.	Part No.	Quantity	Assembly Grip
1	S-61-00-497	1	"Grip incl. (-> 1 - 37"
2	S-61-00-491	1	Tank housing incl. (-> 2, 2a, 2b
2a	S-60-63-371	1	Fuel line
2b	S-60-63-306	1	Oil pipe (->
3	S-60-74-810	1	Throttle lever
4	S-60-74-811	1	Safety lever
5	S-00-40-186	3	Pin
6	S-00-73-445	1	Spring throttle
7	S-60-73-706	1	Back handle cover
8	S-68-00-167	1	Handle bar
13	S-00-18-377	2	Screw
14	S-00-18-370	2	Screw
15	S-20-11-767	1	Foot
16	S-60-63-294	2	Rubber foot
17	S-00-30-108	2	Washer
18	S-00-18-402	2	F.h. screw
19	S-60-63-295	1	Rubber foot
20	S-00-21-215	2	Square nut

Pos. No.	Part No.	Quantity	Assembly Grip
21	S-00-72-148	2	Disc spring
22	S-00-18-280	2	Screw
23	S-64-00-234	1	Oil pump
24	S-00-18-361	1	Screw
25	S-00-28-156	4	Speed nut m5
26	S-80-63-248	1	Grommet
27	S-00-66-381	1	Elbow
28	S-00-66-254	1	Tube
29	S-27-00-414-25	1	Ventilation socket
30	S-80-74-744	1	Screen
31	S-80-74-745	1	Screen
32	S-00-66-335	1	Grommet
33	S-00-18-345	1	Screw
34	S-80-42-508	1	Plate
35	S-00-20-142	1	Square nut
36	S-00-84-515	1	Box
37	S-27-00-224	1	Ventilation hose (->

SENCORE
CONSTRUCTION PRODUCTS

SYNTHETIC BLEND / MEZCLA SINTETICA
2-CYCLE
POWER EQUIPMENT OIL
2 1/2 GAL MIX

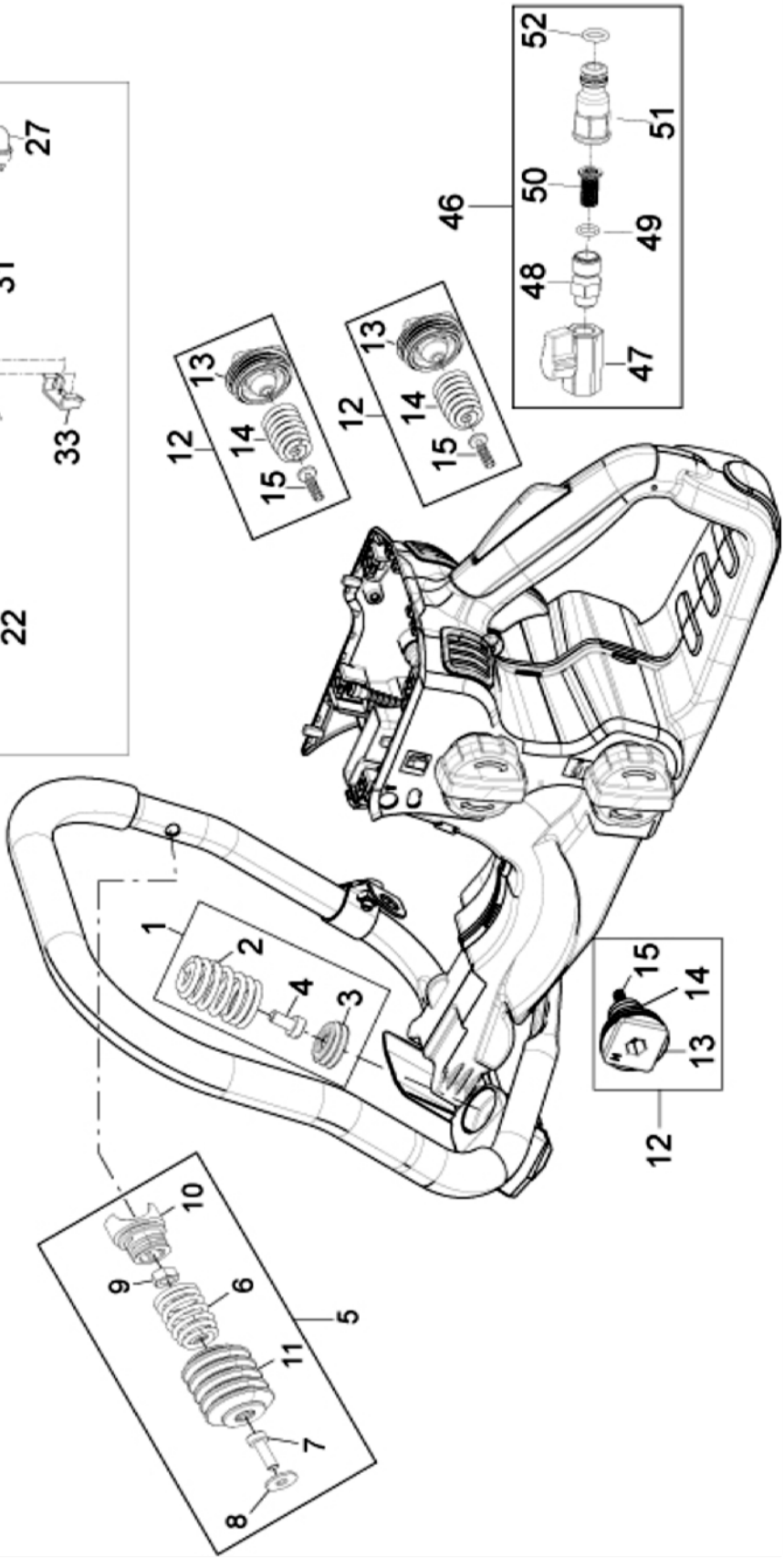
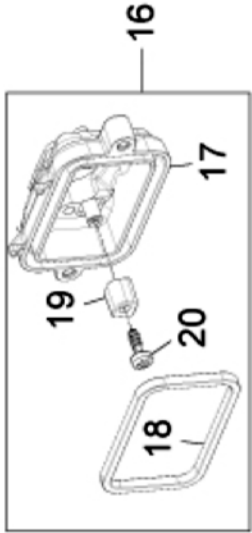
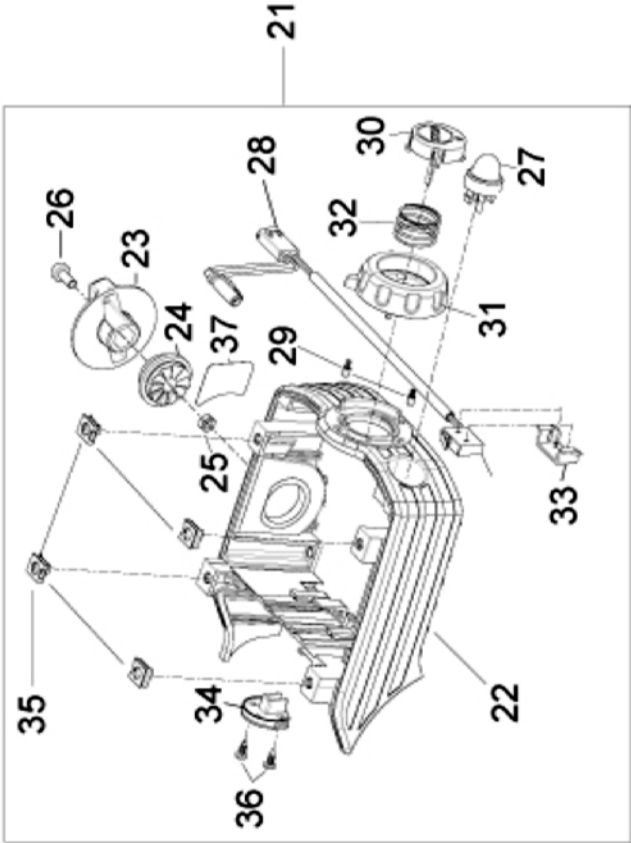
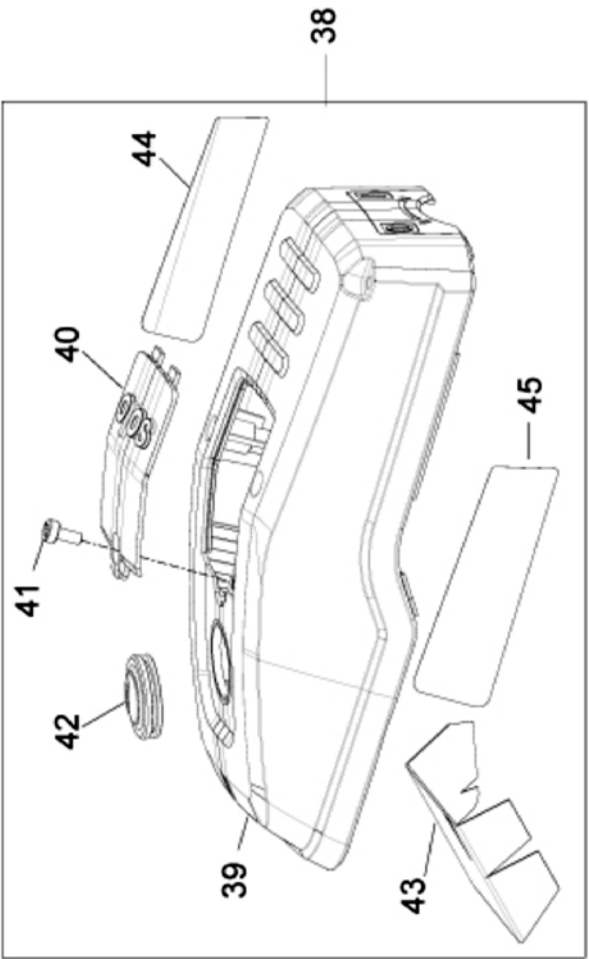
WITH FUEL STABILIZER / CON ESTABILIZADOR DE COMBUSTIBLE
FOR USE IN:
CUT-OFF SAWS • LEAF BLOWERS
LINE TRIMMERS • LAWN MOWERS
ALL 2-CYCLE ENGINES

6.4 FL OZ / 189.3 ML

**ASK YOUR
DEALER FOR
SENCORE SYNTHETIC OIL
WITH FUEL STABILIZER**

Pos.-No.	Part No.	Quantity	Assembly Support, Suction elbow, Console, Cover, Connection
32	S-00-73-163	1	Spring button stop
33	S-60-74-813	1	Support
34	S-60-74-814	1	Switch
35	S-00-28-156	4	Speed nut m5
36	S-00-13-285	2	Screw
37	S-00-68-457	1	Decal filter cleaning <->
38	S-61-00-240	1	"Cover incl. (-> 38 - 45"
39	S-60-73-698	1	Cover
40	S-60-74-717	1	Spark plug cover
41	S-00-18-335	1	F.h. screw
42	S-60-63-307	1	Cover decovalve
43	S-20-42-801	1	Protection foil
44	S-00-68-448	1	Decal top cover
45	S-00-68-444	1	Sticker <->
46	S-00-65-324	1	Connection incl. (-> 46 - 52
47	S-00-65-323	1	Ball cock 1/4"
48	S-80-74-769	1	Connection part
49	S-00-62-115	1	O-ring
50	S-40-74-922-25	1	Filter cartridge
51	S-80-74-768	1	Connection part
52	S-00-62-187	1	O-ring <->

Pos.-No.	Part No.	Quantity	Assembly Support, Suction elbow, Console, Cover, Connection
1	S-63-00-273	1	"Support incl. (-> 1 - 4"
2	S-00-73-269	1	Spring avs
3	S-00-15-111	1	Insert
4	S-00-18-345	1	F.h. screw <->
5	S-63-00-275	1	"Support incl. (-> 5 - 11"
6	S-00-18-347	1	Spring avs
7	S-00-18-347	1	F.h. screw
8	S-00-30-125	1	Washer
9	S-00-20-109	1	Hex. Nut
10	S-60-74-831	1	Clamp
11	S-60-63-287	1	Bellow rubber <->
12	S-63-00-274	3	Spring support incl. (-> 12 - 15
13	S-00-36-132	1	Spring seat
14	S-00-73-270	1	Spring avs
15	S-00-18-370	1	Screw <->
16	S-23-00-871	1	Expansion chamber incl. (-> 16 - 20
17	S-60-74-543	1	Chamber
18	S-00-62-352	1	Foam rubber ring 190
19	S-80-74-749	1	Compensator chamber
20	S-00-18-354	1	Lens head screw <->
21	S-61-00-486-A	1	"Console incl. (-> 21 - 37"
22	S-60-73-707	1	Console
23	S-60-74-455	1	Cleaning knob
24	S-60-74-454	1	Ratchet
25	S-00-28-137	1	Hex. Nut
26	S-00-18-335	1	F.h. screw
27	S-27-00-448	1	Primer
28	S-00-84-514	1	Microswitch with cable ilube
29	S-68-00-403	2	Spring
30	S-60-74-456	1	Stop knob
31	S-60-74-723	1	Switch



SENCORE'S SIGNATURE BLADES



THE SHARK DIAMOND BLADE

AMERICA'S #1 BEST SELLING DIAMOND BLADE

The Shark Diamond Blade is the blade you always dreamed of running, and it's here to stay. Voted as the best blade in America by many sources and companies makes the Shark Blade the HOTTEST selling blade, period. With it's unique and patented split segment design and oversized cooling holes, there is no other blade in today's market that will come close to the shark.

An Oversized 12 mm split turbo segment with the best of both speed and life. 39 Segments, Twice the industry average. Three oversized segments to provide protection from undercutting when cutting asphalt or green concrete 6 oversized cooling holes maximizes blade life and cutting speed. Double laser welded for increased durability, blade life, and safety. Pin hole for use on walk behind saws Smoothest most accurate cut of ANY blade on the market today. Tensioned to 5500 rpm for maximum cutting speed. Cuts any hard or soft materials unlike any blade designed. Wet & Dry Cuts.

PART NUMBER	DIAMETER	THICKNESS	ARBOR	SEGMENT
SEN20SHARK-3	20"	0.125"	1"	12 MM SEGMENT
SEN18SHARK-3	18"	0.125"	1"	12 MM SEGMENT
SEN16SHARK-3	16"	0.125"	1" – 20MM	12 MM SEGMENT
SEN14SHARK-3	14"	0.125"	1" – 20MM	12 MM SEGMENT
SEN12SHARK-3	12"	0.125"	1" – 20MM	12 MM SEGMENT

SHARK SERIES

TIGERSHARK



TIGER SHARK DIAMOND BLADE

Here at Sencore we love the ocean and as you can probably tell we love our Sharks they are amazing creatures and our blades are amazing blades. A case in point is our Tiger Shark blade, Tiger Sharks in the wild are known for their voracious appetite and their willingness to eat almost anything in the ocean. When we say anything, we're not kidding—Tiger Sharks have been found with license plates, tires and even other sharks in their stomachs. Our Tiger Shark blade is much like it's namesake, it cuts through anything, brick, block, granite, even very hard materials like fire brick or quartzite.

The Tiger Shark blade has a huge 15mm turbo segment that will give you blazing fast speed and an extremely clean cut unlike any blade that you have used before, and because the segment height is 15mm it will give you about 50 percent more blade life than other blades with the industry standard of 10mm. Don't forget the fact that like all of our shark series blades the Tiger Shark comes with our patented six oversized cooling holes to keep it running cool even in the hardest materials.

Overall the Tiger shark is one of the fiercest predators in the ocean and the Tiger shark blade will definitely be one of the meanest blades on your jobsite.

PART NUMBER	DIAMETER	THICKNESS	ARBOR	SEGMENT
SEN14TIGER	14"	0.125"	1" - 20MM	15 MM SEGMENT

MAKO



MAKO DIAMOND BLADE

The Mako Shark blade like its namesake in the ocean, is known for its incredible speed. It is a segmented turbo blade that cuts through all aggregates like brick, block, concrete with heavy reinforcement and just about anything else you can get in to.

Like the real Mako Shark in the wild the Mako Blade can maintain optimum temperature in all kinds of aggregates because of Sencore's patented Six Oversized cooling holes, giving you the ability to cut either wet or dry. We even added a pin hole so it can be mounted on most walk behind saws.

If you are looking for a versatile blade with incredible speed and life the Mako is the blade for you!

PART NUMBER	DIAMETER	THICKNESS	ARBOR	SEGMENT
SEN20MAKO-2	20"	0.125"	1"	10 MM SEGMENT
SEN18MAKO-2	18"	0.125"	1"	10 MM SEGMENT
SEN16MAKO-2	16"	0.125"	1" – 20MM	10 MM SEGMENT
SEN14MAKO-2	14"	0.125"	1" – 20MM	13 MM SEGMENT
SEN12MAKO-2	12"	0.125"	1" – 20MM	13 MM SEGMENT

SHARK SERIES

HAMMERHEAD

BULLSHARK



HAMMERHEAD DIAMOND BLADE

Over the years one of the hottest selling blades in America has been the Hammerhead Blade. We've been very proud of the overwhelming response we've received but decided it was time to go from good to great and now we definitely feel we have.

We've increased the diamond concentration, giving it an amazing segment height of 13mm, which is one of the industry's highest, and added our trademark of 6 over-sized cooling holes to give the blade better cooling capacity. We didn't stop there, we gave the blade a thinner core, at only .118" thickness which added speed through the cut and minimized the chipping as it cut some of the harder aggregates.

You won't believe the value we packed into this blade. Concrete, brick, block, pavers, precast, blue stone, sandstone you name it and it will cut it.

Dollar for Dollar this blade is the best in the market

PART NUMBER	DIAMETER	THICKNESS	ARBOR	SEGMENT
SEN20HH-3	20"	0.125"	1"	10 MM SEGMENT
SEN18HH-3	18"	0.125"	1"	10 MM SEGMENT
SEN16HH-3	16"	0.125"	1" – 20MM	10 MM SEGMENT
SEN14HH-3	14"	0.125"	1" – 20MM	13 MM SEGMENT
SEN12HH-3	12"	0.125"	1" – 20MM	13 MM SEGMENT

BULLSHARK DIAMOND BLADE

The Shark Series just got meaner with the new Bull Shark Diamond Blade, it is another great blade added to the Sencore collection. This blade comes packed is a great value, with its 6 oversized cooling holes to keep the blade cool and its 10mm segment to give you the life you need this blade is a winner! The Bullshark will have no problem cutting Concrete, Brick, Masonry, Block, Slate, Field Stone.

The Bull Shark Diamond Blades also work well on a wide variety of saws including masonry saws, brick saws, concrete saws, cut-off saws, gas powered saws and circular saws.

The Shark Series Diamond Blades are our signature trademarked blades. So you know when you buy any of the blades in our Shark series you are get the best blades that money can buy. Series Diamond Blades.

PART NUMBER	DIAMETER	THICKNESS	ARBOR	SEGMENT
SEN14BULL	14"	0.125"	1" - 20MM	10 MM SEGMENT

SHARK SERIES

SENCORE S8100 CUT-OFF SAW



Sencore Construction Products
5808 Georgia Avenue,
West Palm Beach, FL 33405