

Operator's manual

K 40, K 30



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

English

KEY TO SYMBOLS

Key to symbols

WARNING! The machine can be a dangerous tool if used incorrectly or carelessly, which can cause serious or fatal injury to the operator or others.



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.



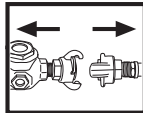
Always wear:

- Approved protective helmet
- Approved hearing protection
- Protective goggles or a visor
- Dust forms when cutting, which can cause injuries if inhaled. Use an approved breathing mask. Always provide for good ventilation.

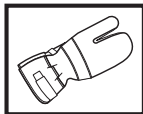


Other symbols/decals on the machine refer to special certification requirements for certain markets.

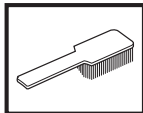
Always disconnect the machine from the hydraulic hoses before inspection and/or maintenance of the machine.



Always wear approved protective gloves.



Regular cleaning is required.



Visual check.



Protective goggles or a visor must be worn.



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Note the following before starting:



WARNING! Cutting, especially when DRY cutting, generates dust that comes from the material being cut, which frequently contains silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Exposure to excessive amount of such dust can cause:

Respiratory disease (affecting your ability to breath), including chronic bronchitis, silicosis and pulmonary fibrosis from exposure to silica. These diseases may be fatal;

Skin irritation and rash.

Cancer according to NTP* and IARC*

***/ National Toxicology Program, International Agency for Resaearch on Cancer**

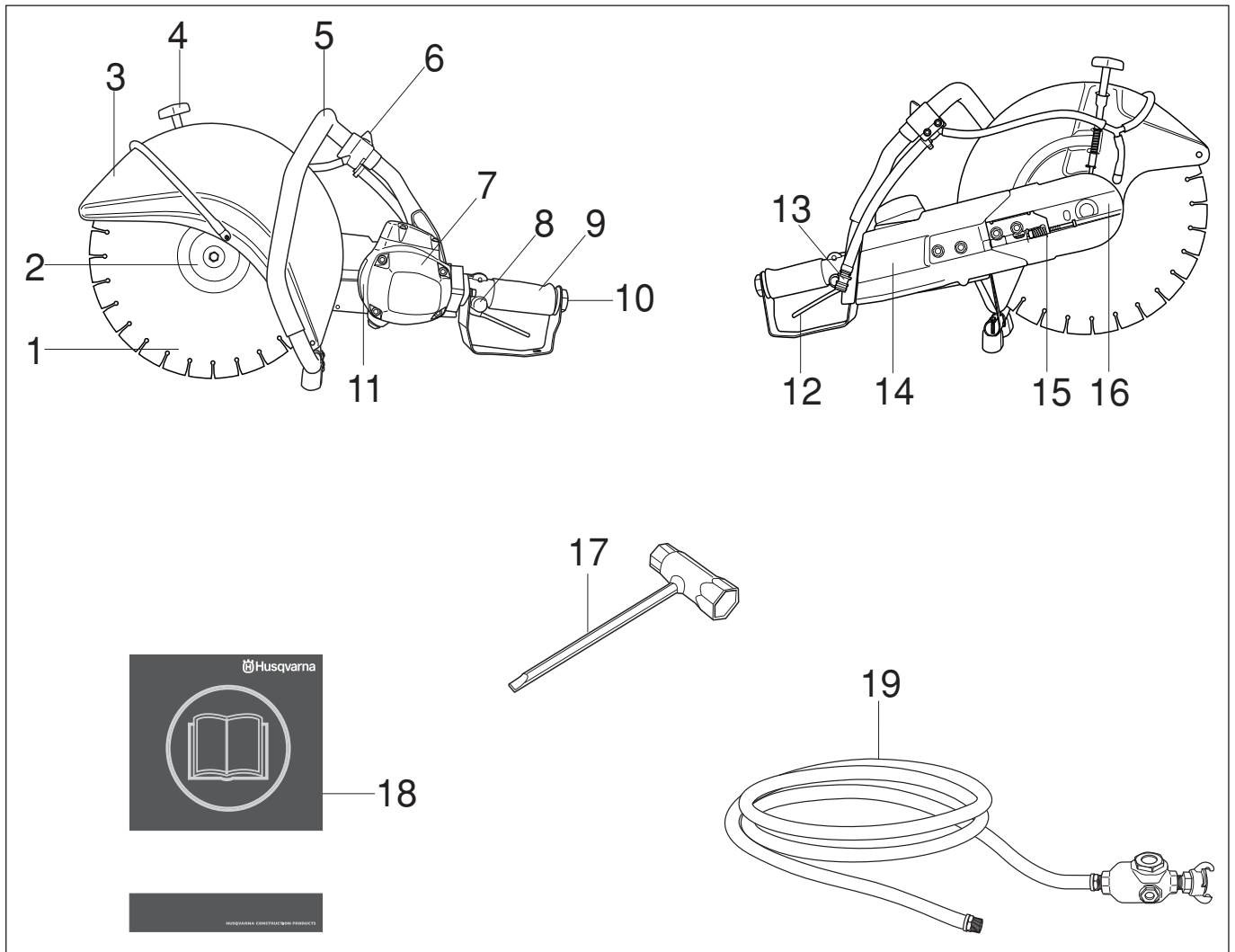
Take precautionary steps:

Avoid inhalation of and skin contact with dust, mist and fumes.

Wear and ensure that all bystanders wear appropriate respiratory protection such as dust masks designed to filter out microscopic particles. (See OSHA 29 CFR Part 1910.1200)

Wet cut when feasible, to minimize dust.

WHAT IS WHAT?



What is what on the power cutter?

- | | |
|----------------------------|---------------------------------|
| 1 Cutting blade | 11 Type plate |
| 2 Flange washer | 12 Switch |
| 3 Guard for the blade | 13 Water connection with filter |
| 4 Catch for the guard | 14 Belt guard |
| 5 Front handle | 15 Belt tensioner |
| 6 Water tap | 16 Cutting arm |
| 7 Air motor | 17 Combination spanner |
| 8 Switch lock | 18 Operator's manual |
| 9 Rear handle | 19 Air hose |
| 10 Connection for air hose | |

SAFETY INSTRUCTIONS

Steps before using a new power cutter.

- This machine is a hydraulically operated power cutter intended for free-hand cutting. The machine should be connected to a hydraulic unit with an oil flow of 35-42 litres/min and a maximum pressure of 150 bar.
- Please read the operator's manual carefully.
- Check the cutting blade's mounting, see the chapter "Assembly".
- Check that the air hose is in full working order and in good condition.

Let your Husqvarna dealer regularly check the power cutter and make essential adjustments and repairs.



WARNING! Under no circumstances may the design of the machine be modified without the permission of the manufacturer. Always use genuine accessories. Non-authorized modifications and/or accessories can result in serious personal injury or the death of the operator or others.



WARNING! Use of products which cut, grind, drill, sand or shape material can generate dust and vapors which may contain harmful chemicals. Know the nature of the material being worked on and wear appropriate dust mask or respirator protection.



WARNING! A power cutter is a dangerous tool if used carelessly or incorrectly and can cause serious, even fatal injuries. It is extremely important that you read and understand the contents of this Operator's Manual.



WARNING! Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

Lead from lead-based paints.

Crystalline silica from bricks, cement and other masonry products.

Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic material.

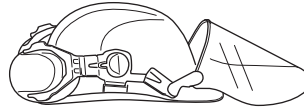
Husqvarna Construction Products has a policy of continuous product development. Husqvarna reserves the right to modify the design and appearance of products without prior notice and without further obligation introduce design modifications. All information and all data in the Operator's Manual were applicable at the time the Operator's Manual was sent to print.

Personal protective equipment

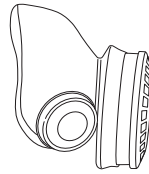


WARNING! You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your dealer for help in choosing the right equipment.

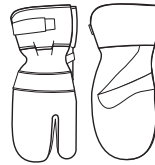
- Protective helmet
- Hearing protection
- Protective goggles or a visor



- Breathing mask



- Heavy-duty, firm grip gloves.



- Tight-fitting, heavy-duty and comfortable clothing that permits full freedom of movement.



- Use leg-guards recommended for the material to be cut.
- Boots with steel toe-caps and non-slip sole



- Always have a first aid kit nearby.



SAFETY INSTRUCTIONS

Machine's safety equipment

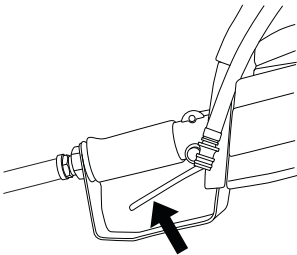
This section describes the machine's safety equipment, its purpose, and how checks and maintenance should be carried out to ensure that it operates correctly. See the "What is what?" section to locate where this equipment is positioned on your machine.



WARNING! Never use a machine that has faulty safety equipment! Carry out the inspection, maintenance and service routines listed in this section.

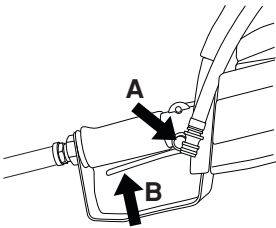
Switch

The switch is used to start and stop the machine.

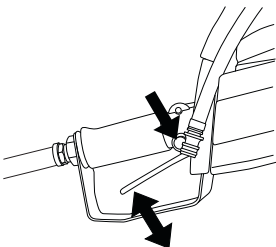


Switch lock

The switch lock is designed to prevent accidental operation of the switch. When the lock (A) is pressed in this releases the switch (B).

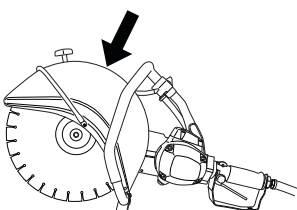


The switch lock remains pressed as long as the switch is pressed. When you release your grip on the handle this resets both the switch and the switch lock. This takes place via two independent return spring systems. This position causes the machine to stop and the switch to be locked.



Guard for the blade

This guard is fitted above the cutting blade and is designed to prevent parts of the blade or cutting fragments from being thrown towards the user.



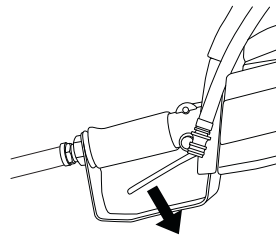
Checking, maintaining and servicing the machine's safety equipment



WARNING! All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact your service agent. When you buy any of our products we guarantee the availability of professional repairs and service. If the retailer who sells your machine is not a servicing dealer, ask him for the address of your nearest service agent.

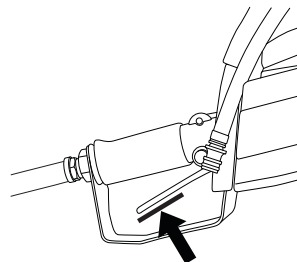
Checking the starting and stopping functions of the switch

Start the machine, release the switch, and check that the machine and blade stop.

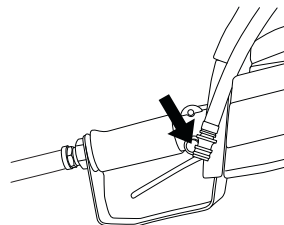


Checking the switch lock

Check that the switch is locked when the switch lock is in its home position.

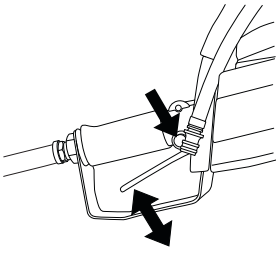


Press the switch lock and check that it returns to its home position when released.



SAFETY INSTRUCTIONS

Check that the switch and switch lock move freely and that their return spring systems function.



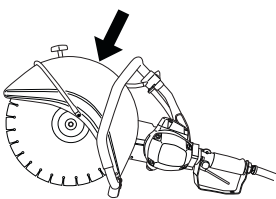
Start the machine, release the switch, and check that the machine and blade stop.

Checking the blade guard



WARNING! Always check that the guard is correctly fitted before starting the machine. Check that the cutting blade is fitted correctly and does not show signs of damage. A damaged cutting blade can cause personal injury. See instructions under the heading Assembly.

Check that the guard is complete and without any cracks or deformations.



General safety precautions

- A power cutter is designed to cut hard materials, such as masonry. Observe the increased risk of kickback when cutting soft materials. See instructions under the heading How to avoid kickback.
- Do not use the power cutter until you have read the entire contents of this Operator's Manual. All servicing, in addition to the points listed in the section "Control, maintenance and service of the power cutter's safety equipment", should be carried out by trained service specialists.
- Never use the machine if you are tired, if you have drunk alcohol, or if you are taking medication that could affect your vision, your judgement or your co-ordination.
- Wear personal protective equipment. See instructions under the heading Personal protective equipment.
- Never use a machine that has been modified in any way from its original specification.
- Never use a machine that is faulty. Carry out the checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. See instructions under the heading Maintenance.
- Never allow anyone else to use the machine without first ensuring that they have understood the contents of the operator's manual.

Transport and storage

Do not store or transport the power cutter with the cutting blade fitted.

Store the power cutter in a lockable area so that it is out of reach of children and unauthorised persons.

All blades should be removed from the cutter after use and stored carefully. Store cutting blades in dry, frost free conditions.

Special care should be taken with abrasive discs. Abrasive discs must be stored on a flat, level surface. If blades are supplied with a backing pad then a spacer should be used to keep them flat. If an abrasive disc is stored in humid conditions, this can cause imbalance and result in injury.

Inspect new blades for transport or storage damage.

General working instructions



WARNING! This section describes basic safety directions for using a power cutter. This information is never a substitute for professional skills and experience. If you get into a situation where you feel unsafe, stop and seek expert advice. Contact your dealer, service agent or an experienced power cutter user. Do not attempt any task that you feel unsure of!

Basic safety rules

- Look around you:
 - To ensure that people, animals or other things cannot affect your control of the machine.
 - To make sure that none of the above come into contact with the cutting blade.
- Do not use the machine in bad weather, such as dense fog, rain, strong wind, intense cold, etc. Working in bad weather is tiring and can lead to dangerous conditions, e.g. slippery surfaces.
- Never start to work with the power cutter before the working area is clear and you have a firm foothold. Look out for any obstacles with unexpected movement. Ensure when cutting that no material can become loose and fall, causing operating injury. Take great care when working on sloping ground.
- Make sure that no clothes or parts of the body come in contact with the cutting equipment when it is rotating.
- Keep at a safe distance from the cutting equipment when it is rotating.
- The guard for the cutting equipment must always be on when the machine is running.
- Ensure that the working area is sufficiently illuminated to create a safe working environment.
- Do not move the machine when the cutting equipment is rotating.

SAFETY INSTRUCTIONS

- Always ensure you have a safe and stable working position.
- Make sure that no pipes or electrical cables are routed in the area to be cut.
- Ensure the cord is behind you when you start to use the machine so that the cord will not be damaged.

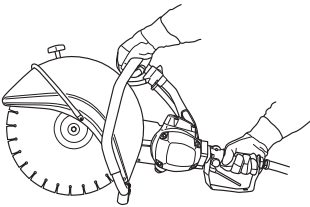
Cutting



WARNING! The safety distance for the power cutter is 15 metres. You are responsible to ensure that animals and onlookers are not within the working area. Do not start cutting until the working area is clear and you are standing firmly.

General

- Start cutting with the machine running at maximum speed.
- Always hold the machine in a firm grip with both hands. Hold it so that the thumbs and fingers grip round the handles.

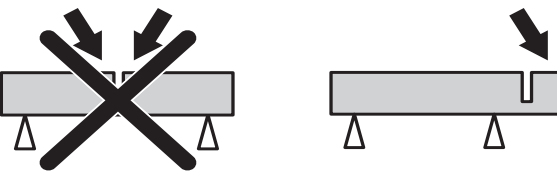


WARNING! Overexposure to vibration can lead to circulatory damage or nerve damage in people who have impaired circulation. Contact your doctor if you experience symptoms of overexposure to vibration. These symptoms include numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin colour or condition. These symptoms normally appear in the fingers, hands or wrists.

Cutting technique

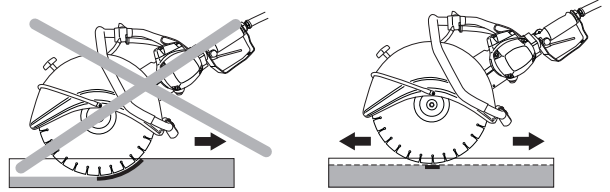
The technique described below is of a general character. Check information for each blade regarding individual cutting characteristics (for example, diamond blades requires less feeding pressure than an abrasive discs).

- Support the work piece in such a way that it is possible to predict what will happen, and so that the cut remains open while cutting.



- Check that the blade is not in contact with anything when the machine is started
- Always cut at maximum speed.
- Start cutting smoothly, allowing the machine to work without forcing or pressing in the blade.

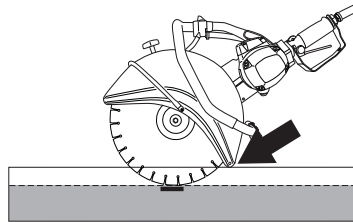
- Move the blade slowly forwards and backwards to achieve a small contact area between the blade and the material to be cut. This reduces the temperature of the blade and ensures effective cutting.



- Feed down the machine in line with the blade. Pressure from the side can damage the blade and is very dangerous.



- The guard for the cutting equipment should be adjusted so that the rear section is flush with the work piece. Spatter and sparks from the material being cut are then collected up by the guard and led away from the user.



WARNING! Under all circumstances avoid grinding using the side of the blade; it will almost certainly be damaged, break and can cause immense damage. Only use the cutting section.

Do not pull the power cutter to one side, this can cause the blade to jam or break resulting in injury to people.

Blade vibration

The blade can become out-of-round and vibrate if an excessive feed pressure is used.

A lower feed pressure can stop the vibration. Otherwise replace the blade. The blade must be of the recommended type for the material to be cut.

How to avoid kickback

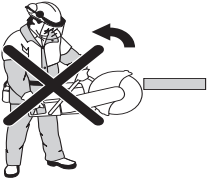


WARNING! Kickback can happen very suddenly and violently; kicking the power cutter and cutting blade back at the user. If this happens when the cutting blade is moving it can cause very serious, even fatal injuries. It is vital you understand what causes kickback and that you can avoid it by taking care and using the right working technique.

SAFETY INSTRUCTIONS

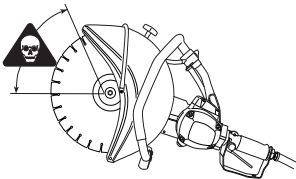
What is kickback?

The word kickback is used to describe the sudden reaction that causes the power cutter and cutting blade to be thrown from an object when the upper quadrant of the blade, known as the kickback zone, touches an object.

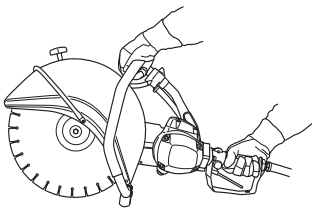


General rules

- Never start to cut with the upper quadrant of the blade as shown in the figure, also known as the kickback zone.



- Always hold the machine in a firm grip with both hands. Hold it so that the thumbs and fingers grip round the handles.



- Keep a good balance and a firm foothold.
- Always cut at maximum speed.
- Stand at a comfortable distance from the work piece.
- Take care when inserting the blade in an existing cut.
- Never cut above shoulder height.
- Be alert to movement of the work piece or anything else that can occur, which could cause the cut to close and pinch the blade.

Pull in

Pull in occurs when the disc's lower section suddenly stops or when the cut closes. (To avoid, see the heading "Basic rules" and "Jamming/rotation", here below.)

Pinching/rotation

If the cut is pressed together this can lead to jamming. The machine can be pulled down suddenly with a very powerful jerk.

How to avoid pinching

Support the work piece in such a way that the cut remains open during the cutting operation and when the cut is finished.



Cutting blades



WARNING! A cutting blade may burst and cause injury to the operator.

Never use a cutting blade at a lower speed rating than that of the power cutter.

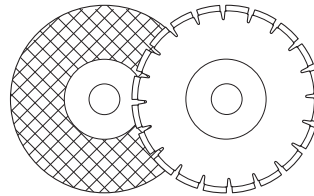
Never use a cutting blade for any other purpose than that it was intended for.



WARNING! Cutting plastics with a diamond blade or rescue blade can cause kickback when the material melts due to the heat produced when cutting and sticks to the blade.

General

Cutting blades are available in two basic designs; abrasive discs and diamond blades.



Always remove the cutting blade when the machine is transported.

Make sure that the right bushing is used for the cutting blade to be fitted on the machine. See the instructions under the heading Assembling the cutting blade.

High-quality blades are often most economical. Lower quality blades often have inferior cutting capacity and a shorter service life, which results in a higher cost in relation to the quantity of material that is cut.

Water cooling



WARNING! Water cooling, which is used when cutting concrete, cools the blade and increases its service life while also reducing the formation of dust. Disadvantages include difficulties at very low temperatures, the risk of damaging floors and other structural elements, and the risk of slipping.

After using an abrasive disc with water cooling, run the disc dry for about half a minute. If an abrasive disc is stored in humid conditions, this can cause imbalance and result in injury.

Hand-held, high-speed machines

Our cutting blades are manufactured for high-speed, portable power cutters. If blades from other manufacturers are used, ensure that the blades conform to all regulations and demands that concern this type of power cutter.

SAFETY INSTRUCTIONS

Special blades

Some cutting blades are designed for stationary equipment and for use with attachments. Such cutting blades must not be used on portable power cutters.

Always contact local authorities and make sure you are following applicable directives.

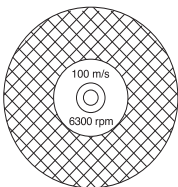
Abrasive discs

The cutting material on abrasive discs consists of grit bonded using an organic binder. "Reinforced blades" are made up of a fabric or fibre base that prevents total breakage at maximum working speed if the blade should be cracked or damaged.

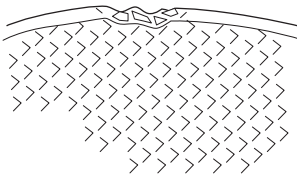
A cutting blade's performance is determined by the type and size of abrasive corn, and the type and hardness of the bonding agent.

Abrasive discs, types and use		
	Use	
Disc type	Material	Water cooling
Concrete	Concrete, asphalt, stone masonry, cast iron, aluminium, copper, brass, cables, rubber, plastic, etc.	Can be used to reduce dust. Run the disc dry for about a half minute after using an abrasive disc with water cooling.
Metal	Steel, steel alloys and other hard metals.	NOT recommended

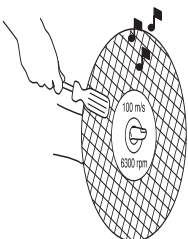
Check that the blade is approved for the same or higher speed according to the approval plate of the engine. Never use a cutting blade with a lower speed rating than that of the power cutter.



Ensure the blade is not cracked or damaged in any other way.



Test the abrasive disc by hanging it on your finger and tapping it lightly with a screwdriver or the like. If the disc does not produce a resonant, ringing sound it is damaged.

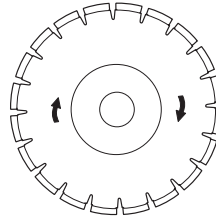


Diamond blades

Diamond blades consist of a steel body provided with segments that contain industrial diamonds.

Diamond blades ensure lower costs per cutting operation, fewer blade changes and a constant cutting depth.

When using diamond blades make sure that it rotates in the direction indicated by the arrow on the blade.



Always use a sharp diamond blade. Sharpen the blade by cutting in a soft material such as sandstone or brick.

Diamond blades are available in several hardness classes. A "soft" diamond blade has a relatively short service life and large cutting capacity. It is used for hard materials such as granite and hard concrete. A "hard" diamond blade has a longer service life and reduced cutting capacity, and should be used for soft materials such as brick and asphalt.

Sharpening diamond blades

Diamond blades can become dull when the wrong feeding pressure is used or when cutting certain materials such as heavily reinforced concrete. Working with a blunt diamond blade causes overheating, which can result in the diamond segments coming loose.

Sharpen the blade by cutting in a soft material such as sandstone or brick.

Material

Diamond blades are ideal for masonry, reinforced concrete and other composite materials. Diamond blades are not recommended for cutting metal.

Diamond blades for wet cutting



WARNING! Cool diamond blades for wet cutting continuously with water to prevent overheating, which can cause the blade to break up and eject pieces that can cause injury.

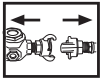
Diamond blades for wet cutting should have water poured over them during the cutting to cool the blade and bond the dust.

Diamond blades for dry cutting

Diamond blades for dry cutting are a new generation of blades that do not require water cooling. However, the blades will still be damaged by excessive heat. It is most economical to allow the blade to cool by simply lifting it out from the cut every 30–60 seconds and letting it rotate in the air for 10 seconds.

ASSEMBLY

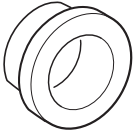
Assembly



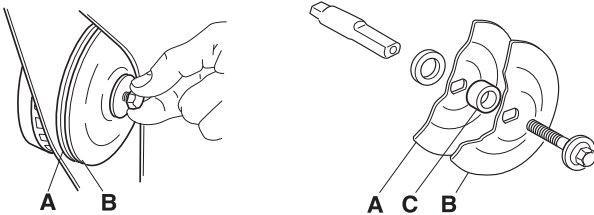
WARNING! Always disconnect the machine from the hydraulic hoses before cleaning, assembly and maintenance.

Fitting the cutting blade

Husqvarna's blades are approved for hand-held power cutters. Blades are manufactured with three different diameters of centre holes: 20 mm (0.787"), 22.2 mm (7/8") and 25.4 mm (1"). Bushings can be fitted on the machine axle to adjust the machine to the centre hole of the blade. Use a bushing with the correct diameter! The blades are marked with the diameter of the centre hole.



The blade is placed on the bushing (C) between the inner flange washer (A) and the flange washer (B). The flange washer is turned so that it fits on the axle.



Tightening torque for the bolt holding the blade is: 15-25 Nm (130-215 in.lb).

The axle can be locked by inserting a screwdriver or the like in the hole in the belt guard.

When a diamond blade is mounted on the power cutter make sure that the diamond blade will rotate in the direction indicated by the arrow on the blade.

When the blade is replaced with a new one, check the flange washers and the drive axle. See instructions under the heading Checking the drive axle and flange washers.

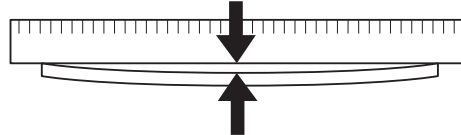
Checking the drive axle and flange washers



Check that the threads on the drive shaft are undamaged.

Check that the contact surfaces on the blade and the flange washers are undamaged, of the correct dimension, clean, and that they run properly on the drive axle.

Do not use warped, notched, indented or dirty flange washers. Do not use different dimensions of flange washers.



Cutting arm

It is possible to turn the cutting arm 180° so that the blade comes on the other side of the cutting arm. This simplifies cutting close to obstacles such as walls and floors etc. The cutting arm and drive belt are released in the same way as when replacing the drive belt. See instructions under the heading Replacing the drive belt.

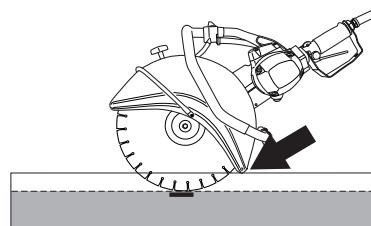
Turn the arm 180°, replace the respective parts, and screw them secure in the same way as before.

If you are using a diamond blade you must also turn it so that it rotates in the right direction. A diamond blade must rotate in the direction shown by the arrow marking on the blade.

Guard for the blade

The guard must always be fitted on the machine.

The guard for the cutting equipment should be adjusted so that the rear section is flush with the work piece. Spatter and sparks from the material being cut are then collected up by the guard and led away from the user.



STARTING AND STOPPING

Starting and stopping



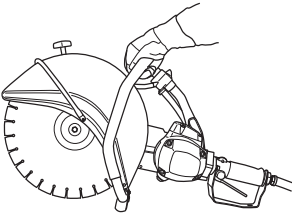
WARNING! Note the following before starting:

Make sure you have a secure footing and that the cutting blade cannot touch anything.

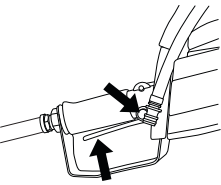
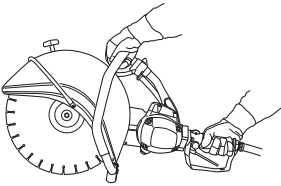
Keep people and animals well away from the working area.

Starting

- Grip the front handle with the left hand.

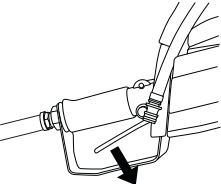


- Grip the rear handle with your right hand.



Stopping

The machine is stopped by releasing the switch.



MAINTENANCE

Maintenance

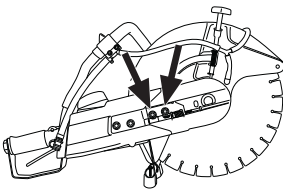


WARNING! Always disconnect the machine from the hydraulic hoses before inspection and/or maintenance of the machine.

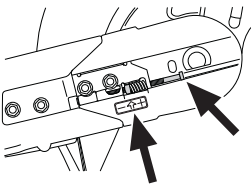
Tensioning the drive belt

The drive belt is fully enclosed and well protected from dust and dirt.

When the drive belt is to be tensioned, release the nuts holding the cutting arm.



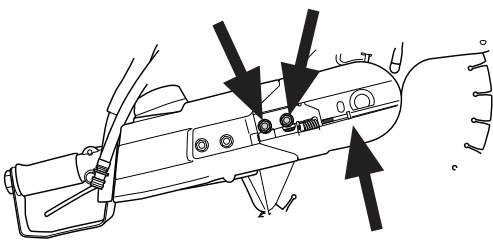
Screw the adjuster screw so that the square headed nut comes opposite the marking on the cover. This automatically ensures that the belt has the correct tension.



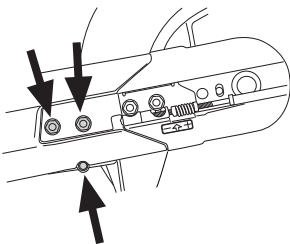
Tighten the two nuts holding the cutting arm.

Replacing the drive belt

First release the nuts and then the adjuster screw to release the belt tension.



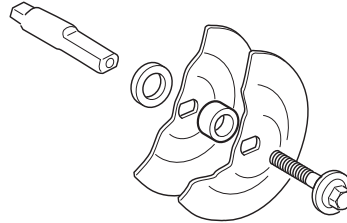
Unscrew the nuts and lift off the front belt guard. The cutting head is now loose and can be removed from the machine. Remove the rear belt guard by releasing the two screws holding the guard.



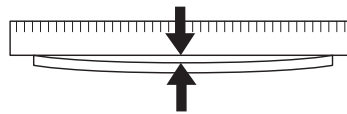
Take off the old belt and fit the new one. Fit the cutting arm to the machine and tension the belt with the adjuster screw. A new drive belt should be re-tensioned after running for about 30 minutes.

Checking the drive axle and flange washers

Check that the threads on the drive shaft are undamaged. Check that the contact surfaces on the blade and the flange washers are undamaged, of the correct dimension, clean, and that they run properly on the drive axle.

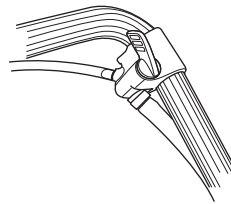


Do not use warped, notched, indented or dirty flange washers. Do not use different dimensions of flange washers.

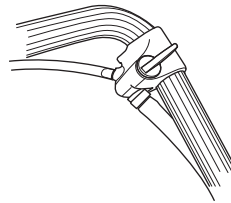


Water cooling

Check that the water tap functions. To open the water tap, turn the tap to open position.

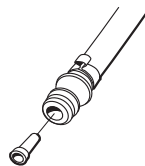


To turn off the water, turn the tap to closed position.



Water filter

Check and clean the filter if necessary.



MAINTENANCE

Daily maintenance

Carry out the following checks daily before using the machine.

- 1 Check that nuts and screws are tight.
- 2 Check that the air hose is in full working order and in good condition.
- 3 Start the power source and check that the power cutter functions by starting the machine with the switch in the rear handle. Check that the blade stops when the switch is released.
- 4 Checking the blade guard
- 5 Check the condition of the cutting blade.
- 6 Check the tension of the drive belt.
- 7 Check that the available compressor provides the correct air pressure, 7 bar and the correct air volume of 2.8-3.5 m³/min for K40 and 2.0-2.4 m³/min for K30.
- 8 Use an air hose that is at least 3/4 (19 mm).
- 9 Blow any dirt and moisture out of the hoses before connecting the machine.
- 10 Connect the air hose to the machine and secure the couplings. Turn on the air pressure and check that there is no leakage.
- 11 Turn off the air supply and release the pressure before using the machine. Check that the oil container is filled with oil intended for pneumatic machines. When an oil dispenser container is not used, you can pour a small quantity of oil directly into the air hose. When the machine is then started the motor will be lubricated by the oil blown through the motor.
- 12 Use a compressor with a moisture separator.
- 13 Inspect the water adjustment control.
- 14 Check the function of the water filter.

Motor repairs can be extremely expensive.

Motor failure can be caused by the following:

- 1 Use of the machine without an oil dispenser container connected.
- 2 Condensation water in the air supply, caused by condensation in the hoses, compressor tank, valves, etc. Condensation results in rust attack on the metal parts inside the motor.
- 3 Dirty air hoses or pneumatic couplings.
- 4 Uncleaned air system. Cleaned refers to pouring a small quantity of oil into the hoses and starting the machine so that the oil is blown through the motor. The oil rinses out all moisture and protects the motor parts. Oil for pneumatic machines must be used. Ask your dealer for the right type of oil.

Do not use engine oil or hydraulic oil.



TECHNICAL DATA

Technical data

Technical data	K30	K40
Motor		
Air consumption, m ³ /min	2,0-2,4	2,8-3,5
Max. air pressure, bar	7	7
Air hose rec. dimension, inch/mm	3/4 / 19	3/4 / 19
Air intake dimension, inch/mm	3/4 / 19	3/4 / NPT hona
Drive system, V-belt	SPZ	SPZ
Max. speed of output shaft, rpm	5100	5400
Weight		
Power cutter without cutting blade, Lbs/kg	19,2/8,7	21,8/9,9
Lubricant	Anti-freeze pneumatic tool oil	Anti-freeze pneumatic tool oil

Cutting equipment

Cutting blade	Max. peripheral speed, m/s / ft/s
12" (300 mm)	80
14" (350 mm)	100

Original instructions



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