Enter the Serial Number of your new iQPC912™ Dust Control Power Cutter in the space below.

Serial Number:

CAUTION:
Read all safety and operating instructions before using this equipment

NOTE:
For your 90 day warranty to be effective, complete the warranty card (including the Serial Number) and mail it within 30 days or you can do so online at www.iqpowertools.com.
INTRODUCTION

We at IQ Power Tools™ want to congratulate you on selecting the iQPC912™ Dust Control Power Cutter. We are certain that you will be pleased with your purchase. iQ Power Tools takes pride in manufacturing the most innovative tools and equipment in the industry.

If operated correctly, your iQPC912™ should provide you with years of quality service. This owners manual contains information you need to operate and maintain your iQPC912™ safely and correctly. Please take a few minutes to familiarize yourself with your new iQPC912™ by reading and reviewing this manual.

If you should have any questions concerning your iQ PC912™, please feel free to contact us at: (888) 274-7744 or email customer.service@iqpowertools.com
SPECIFICATIONS

PRODUCT SPECIFICATIONS:
The iQPC912™ is a versatile lightweight, dry, concrete and masonry power cutter with an integrated dust control system. Operated and used according to the manual, the iQ PC912™ will provide years of dependable service.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>iQ PC912™</td>
<td>Dust Control Power Cutter</td>
</tr>
</tbody>
</table>

General Description:

The iQ PC912™ is engineered as a 12” dry masonry and concrete power cutter with integrated dust control system.

iQ PC912, Weight Specifications:
Motor and weight specifications for the PC912 are listed in Table 2 below.

<table>
<thead>
<tr>
<th>RPM</th>
<th>9000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade Capacity</td>
<td>12” (305 mm)</td>
</tr>
<tr>
<td>Arbor Size</td>
<td>1” (25 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>31 Lbs (14 kg)</td>
</tr>
<tr>
<td>L x W x H (in)</td>
<td>42 x 14 x 17</td>
</tr>
</tbody>
</table>

Blade Capacity:
The iQPC912™ uses a 12-inch diameter laser welded segmented diamond blades

Material Types:
The iQPC912™ can cut a variety of masonry and concrete products with the appropriate diamond blade. Types include, wall brick, paver brick, concrete block and concrete pipe or cylinders, roofing tile, marble, granite, decorative rock or almost any other non-ferrous material.

NOTE:
The iQPC912™ is not designed to cut plastic, wood or ferrous (metals) materials.
iQPC912™ Power Cutter Orientation

01 Dust Stop
02 Diamond Blade
03 Blade Guard
04 Filter Cover
05 Filter Housing
06 Filter Spin Handle
07 Front Handle
08 Muffler Heat Shield
09 Decompression Valve
10 Starter Handle
11 Throttle Lockout
12 Inner Dust Guard
13 Outer dust guard
14 Blade Thrust Washer
15 Blade Bolt
16 Door Pull Handle
17 Door Latch Lever
18 Lower Dust Chamber
19 Engine Support Foot
20 Starter
21 Fuel Tank
22 Rear Handle
iQPC912™ Power Cutter Orientation

01 Warning Label
02 Air Filter Cover
03 Front Handle
04 Operating Procedure Label
05 Filter Housing
06 Front Handle Brace
07 Clutch Cover
08 Beam Bolts
09 Dust Door
10 Dust Door Latch Tab
11 Belt Tensioner Screw
12 Beam Cover
iQPC912™ Power Cutter Orientation

01 Ignition on/off Switch
02 Serial Number Plate
03 Fast Idle Lock
04 Throttle Trigger Control
05 Choke Control Lever
06 throttle lockOUT

07 Warranty Card
08 Operators Manual
09 Combination T Spanner Tool
10 Small Screwdriver
11 5mm ball end driver
SAFETY

Read and follow ALL safety, operating and maintenance instructions. Failure to read and follow these instructions could result in damage and/or reduced equipment life.

SAFETY MESSAGES:
The messages below are to inform the user about potential hazards that could lead to injury, death and/or equipment damage. Each safety messages will be proceeded by one of the following (3) three words that identify the severity of the message.

⚠️ DANGER
Not following instructions WILL lead to DEATH or SERIOUS INJURY

⚠️ WARNING
Not following instructions COULD lead to DEATH or SERIOUS INJURY

⚠️ CAUTION
Not following instruction CAN lead to injury

DAMAGE PREVENTION AND INFORMATION MESSAGES:
A Damage Prevention Message is to inform the user of important information and/or instructions that could lead to equipment or other property damage if not followed. Information Messages convey information that pertains to the equipment being used. Each message will be preceded by the work NOTE, as in the example below.

NOTE:
Equipment and/or property damage may result if these instructions are not followed.

GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS:
In order to prevent injury, the following safety precautions and symbols should be followed at all times!

Safety Precautions:
KEEP GUARDS IN PLACE.
In order to prevent injury, keep guards in place and in working order at all times.

REMOVE ADJUSTING KEYS AND WRENCHES.
Form a habit of checking to see that keys and adjusting wrenches are removed from the power tool before it is started.

KEEP WORK AREA CLEAN.
Cluttered work areas and benches invite accidents.

DO NOT USE IN DANGEROUS ENVIRONMENTS.
Do Not use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighted.

DO NOT FORCE THE TOOL.
A power tool will do a job better and safer operating at the rate for which it was designed.

USE THE RIGHT TOOL.
Do not force a tool or an attachment, to do a job that it was not designed to do.

NEVER CUT MAGNESIUM, METAL OR WOOD PRODUCTS WITH THIS TOOL.
Steps before using a new power cutter

- Please read the operator's manual carefully.
- Check the cutting blade’s mounting, see the chapter "Assembly".
- Start the engine and check the idling setting, see instructions under the heading Maintenance. When the carburetor is set correctly the cutting blade should be stopped while idling. Setting of the idle speed is described in the Operator’s Manual. Set the correct speed according to these instructions. Do not use the power cutter if the idle speed is not adjusted correctly!
- Let your iQ Power Tools service center regularly check the power cutter and make essential adjustments and repairs.
- iQ Power Tools has a policy of continuous product development. iQ Power Tools reserves the right to modify the design and appearance of products without prior notice and without further obligation to 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**

- 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.

**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.
SAFETY

WEAR PROPER APPAREL.
Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may be caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

ALWAYS USE SAFETY GLASSES.
Safety glasses should always be worn when working around power tools. In addition, a face, dust mask or respirator should always be worn. Everyday eyeglasses only have impact resistant lenses and may not prevent eye injury—they are NOT safety glasses.

DO NOT OVERREACH.
Keep proper footing and balance at all times by not overreaching. Keep your hands free to operate a power tool is safer.

CHECK FOR DAMAGED PARTS.
Before using a power tool, check for damaged parts. A guard or any other part that is damaged should be carefully checked to determine if it would operate properly and perform its intended function. Always check moving parts for proper alignment or binding. Check for broken parts and mountings and all other conditions that may affect the operation if the power tool. A guard, or any damaged part, should be properly repaired or replaced.

DIRECTION OF FEED.
Always feed work into the blade or cutter against the direction of rotation. A blade or cutter should always be installed such that rotation is in the direction of the arrow imprinted on the side of the blade or cutter.

NEVER LEAVE A TOOL RUNNING UNATTENDED—TURN OFF POWER.
Do not leave a tool until it comes to a complete stop. Always turn a power tool OFF when leaving the work area, or, when a cut is finished.

WARNING
Sawing and drilling generates dust. Excessive airborne particles may cause irritation to the eyes, skin, respiratory tract. To avoid breathing impairment, always employ dust controls and protection suitable to the material being sawed or drilled; See OSHA (29 CFR Part 1910.1200). Diamond Blades improperly used are dangerous. Comply with American National Standards Institute Safety Code, B7.1 and, Occupational Safety and Health Act covering Speed, Safety Guards, Flanges, Mounting procedures, General Operating Rules, Handling, Storage and General Machine Conditions.
CALIFORNIA PROPISITION 65 MESSAGE:

WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known [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 paint or materials
- Crystalline silica, from bricks and cement and other masonry products and
- Arsenic and chromium, from chemically treated lumber

For Further information consult the following sources:

http://www.oehha.org/prop65/out_of_date/6022kLstA.html

The iQPC912™ is a very effective dust control saw but, 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 dust masks that are specially designed to filter out microscopic particles.
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 iQPC912TM Power Cutter Orientation section to locate where this equipment is positioned on your machine.

Vibration damping system
Your machine is equipped with a vibration damping system that is designed to minimize vibration and make operation easier.

The machine’s vibration damping system reduces the transfer of vibration between the engine unit/cutting equipment and the machine’s handle unit.

The engine body, including the cutting equipment, is insulated from the handles by vibration damping units.

Regularly check the vibration damping units for cracks or deformation. Make sure the vibration damping units are securely attached to the engine unit and handle unit. Keep the handles clean and dry.

Stop switch
Use the stop switch to switch off the engine.

O = OFF / I = ON

Start the engine and make sure the engine stops when you move the stop switch to the stop setting.

Muffler
The muffler is designed to keep noise levels to a minimum and to direct exhaust fumes away from the user.

IMPORTANT INFORMATION
For mufflers it is very important that you follow the instructions on checking, maintaining and servicing your machine. See instructions under the heading Checking, maintaining and servicing the machine’s safety equipment.

Never use a machine that has a faulty muffler.

Regularly check that the muffler is securely attached to the machine.

WARNING! The muffler gets very hot in use and remains so for a short time afterwards. Do not touch the muffler if it is hot!

WARNING! The exhaust fumes from the engine are hot and may contain sparks which can start a fire. Never start the machine indoors or near combustible material!

WARNING! The inside of the muffler contain chemicals that may be carcinogenic. Avoid contact with these elements in the event of a damaged muffler.
**SAFETY INSTRUCTIONS**

**Throttle lockout**
The throttle lockout is designed to prevent accidental operation of the throttle. When the throttle lockout (A) is pressed in this releases the throttle trigger (B)
The throttle lockout remains pressed in as long as the throttle trigger is pressed. When the grip on the handle is released the throttle trigger and the throttle lockout both return to their original positions. This is controlled by two independent return spring systems. This means that the throttle trigger is automatically locked in the idle position.

Make sure the throttle trigger is locked at the idle setting when the throttle lockout is released.

Press the throttle lockout and make sure it returns to its original position when you release it.

Check that the throttle trigger and throttle lockout move freely and that the return springs work properly.

Start the power cutter and apply full throttle. Release the throttle trigger and check that the cutting blade stops and remains stationary. If the cutting blade rotates when the throttle is in the idle position you should check the carburetor’s idle adjustment.

See instructions under the heading Maintenance.

**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.

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

**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.
SAFETY INSTRUCTIONS

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 judgment 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.
- Never use the machine indoors. Be aware of the dangers of inhaling the engine’s exhaust fumes.

Transport and storage

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.

Inspect new blades for transport or storage damage.
Fuel safety
(Refueling/Fuel mixture/Storage.)

- Never refuel the machine while the engine is running.
- Make sure there is plenty of ventilation when refueling or mixing fuel (gas and 2-stroke oil).
- Move the machine at least 10 feet from the refueling point before starting it.
- Never start the machine:
  - If you have spilt fuel on it. Wipe off the spillage and allow remaining fuel to evaporate.
  - If you have spilt fuel on yourself or your clothes, change your clothes. Wash any part of your body that has come in contact with fuel. Use soap and water.
  - If the machine is leaking fuel. Check regularly for leaks from the fuel cap and fuel lines.
- Store and transport the machine and fuel so that there is no risk of any leakage or fumes coming into contact with sparks or naked flames, for example, from electrical machinery, electric motors, electrical relays/switches or boilers.
- Always store fuel in an approved container designed for that purpose.
- When storing the machine for long periods the fuel tank must be emptied. Contact your local gas station to find out where to dispose of excess fuel.
- Always use a fuel container with an anti-spill valve.

WARNING! Bear in mind the risk of fire, explosion and inhaling fumes. Stop the engine before fueling. Do not fill so that the fuel runs over. Wipe up all spillage on the ground and machine. If you spill fuel on yourself or your clothes. Change your clothes. Move the machine at least 10 feet away from the refueling area before starting.

General working instructions
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 operator 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.
SAFETY INSTRUCTIONS

- 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.
- 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.

WARNING! Only use the machine in areas with good ventilation. Neglect can result in serious injury or death.

Cutting
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.

General cutting technique
The technique described below is of a general character. Check information for each blade regarding individual cutting characteristics.
- 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 follow the cutting direction arrows indicated on the blade guard. **Always cut in a downward direction to ensure proper dust capture.** It’s important to keep the dust guard against the material being cut for best results.
- Do not use the upper quarter of cutting blade to cut. If the upper quarter of the cutting blade is applied to material, the machine can be flung back toward the operator with great force. The machine and the rotating cutting blade can cause severe injury.
- Feed down the machine in line with the blade. Pressure from the side can damage the blade and is very dangerous.
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.

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 or **NO Cut 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 **No Cut 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 recommended 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 force.

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.
SAFETY INSTRUCTIONS

Cutting blades

General
Use only diamond blades approved for cutting concrete and masonry.
Do not cut metal materials.
Always remove the cutting blade when the machine is transported.
Make sure that the right spacer 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.

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

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.

Material
Diamond blades are ideal for masonry, concrete and other composite materials. Diamond blades are not recommended for cutting metal. The iQ PowerCutter™ should never be used to cut metal.

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.

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 materials than that it was intended for.
SAFETY INSTRUCTIONS

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 color or condition. These symptoms normally appear in the fingers, hands or wrists.

Check that the blade is approved for the same or higher speed as stated in the operator’s manual. 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.

Sharpening diamond blades
Diamond blades can become dull when the wrong feeding pressure is used or when cutting certain materials such as high strength 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.

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.

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.

CAUTION! If the diamond blade shows signs of fatigue cracking, replace the blade before starting work.

WARNING! Only use the machine in areas with good ventilation. Neglect can result in serious injury or death.
Setup, Adjustments & Operation

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 blade thrust 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 blade thrust washers.
Do not use different dimensions of blade thrust washers.

Fitting the cutting blade
iQ Diamond Blades are approved for hand-held power cutters. Blades are manufactured with 1" (25.4mm) diameter center hole.

The blade is placed on the bushing “C” between the inner thrust washer “A” and the outer thrust washer “B”. The thrust 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 shaft can be locked using a screwdriver, steel pin or the like. This is slid in as far as possible. The blade is tightened clockwise.

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 blade thrust washers.

Guard for the blade
The guard must always be fitted on the machine.

Retracting Dust Guard
The lower retracting dust guard should be inspected for damage and wear to ensure smooth operation.

Dust Stop
Dust Stop should be inspected for wear and replaced periodically. The material roller should be free-spinning to allow smooth contact with material.
Fuel
CAUTION! The machine is equipped with a two-stroke engine and must always be run using a mixture of petrol and two stroke engine oil. It is important to accurately measure the amount of oil to be mixed to ensure that the correct mixture is obtained. When mixing small amounts of fuel, even small inaccuracies can drastically affect the ratio of the mixture.

Use good quality unleaded or leaded gasoline.

The lowest octane recommended is 90 (RON). If you run the engine on a lower octane grade than 90 so-called knocking can occur. This gives rise to a high engine temperature, which can result in serious engine damage.

Two-stroke oil
- For best results and performance use two-stroke engine oil, which is specially formulated for air cooled two-stroke engines.
- Never use two-stroke oil intended for water-cooled engines, sometimes referred to as outboard oil (rated TCW).
- Never use oil intended for four-stroke engines.

Mixing ratio
1:50 (2%) with two-stroke oil.

<table>
<thead>
<tr>
<th>Gas, gallons</th>
<th>Two-stroke oil, ounces 2% (1:50)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.6 (1/3 cup)</td>
</tr>
<tr>
<td>5</td>
<td>13 (1-2/3 cup)</td>
</tr>
<tr>
<td>10</td>
<td>26 (3-1/4 cups)</td>
</tr>
<tr>
<td>15</td>
<td>39 (4-7/8 cups)</td>
</tr>
<tr>
<td>20</td>
<td>52 (6-1/2 cups)</td>
</tr>
</tbody>
</table>

Mixing
- Always mix the gas and oil in a clean container intended for fuel.
- Always start by filling half the amount of the gas to be used. Then add the entire amount of oil. Mix (shake) the fuel mixture. Add the remaining amount of gas.
- Mix (shake) the fuel mixture thoroughly before filling the machine’s fuel tank. Do not mix more than one month’s supply of fuel at a time.
- If the machine is not used for some time the fuel tank should be emptied and cleaned.
WARNING! Taking the following precautions, will lessen the risk of fire:
Do not smoke or place hot objects near fuel. Always shut off the engine before refueling. When refueling, open the fuel cap slowly so that any excess pressure is released gently. Tighten the fuel cap carefully after refueling. Always move the machine away from the refueling area before starting.

Fueling
- Keep the handle dry and free from oil and fuel.
- Ensure that the fuel is well mixed by shaking the container before filling the tank.
- Always exercise care when refilling the fuel. Move the machine at least 10 feet from the refueling area before it is started. Check that the fuel cap is tightened correctly.
- Clean around the fuel cap. Clean the fuel tank regularly. The fuel filter should be changed at least once a year. Contamination in the tanks causes malfunction.
STARTING AND STOPPING INSTRUCTIONS

Starting a cold engine

Ignition: (A) Press the ignition switch to the on position. I = ON / O = OFF

Choke: (B) Pull the choke control fully out.

Fast idle lock: (C)
(1) Press in the throttle lockout.
(2) Press the throttle trigger control
(3) and then press the fast idle lock
Release the throttle trigger control and it is locked in the fast idle position. The fast idle lock releases when the throttle trigger control is pressed in fully.

Decompression valve: (D)
Press in the decompression valve every time you pull the starter cord to reduce the pressure in the cylinder, this is to assist starting the power cutter. The decompression valve should always be used when starting.

Why is this required?
The iQ PC912™ is a high performance 93 cc high compression engine that requires the operator to press the decompression valve every time the starter cord is pulled. Failure to engage the decompression valve will damage the pull start assembly and cause injury.

Starting
(1) Grip the front handle with your left hand.
(2) Put your right foot on the lower section of the rear handle pressing the machine against the ground.
(3) Grip the starter handle. Press the decompression valve with your right thumb.
(4) Slowly pull out the cord with your right hand until you feel some resistance (the starter pawls grip), now quickly and powerfully pull the cord.

Never twist the starter cord around your hand. Once the engine pops or fires, push the choke control fully in. Press the decompression valve and the engine should start on next pull.

When the engine starts, quickly apply full throttle to automatically disengage fast idle.
Starting a warm engine
Use the same starting procedure as for a cold engine but without setting the choke control in the choke position.

When the engine starts, quickly apply full throttle to automatically disengage fast idle.

**CAUTION!** Do not pull the starter cord all the way out and do not let go of the starter handle when the cord is fully extended. This can damage the machine.

Stopping
The engine is stopped by pressing the ignition switch to the off position.
Spin Filter Instructions
Spin the filter handle once after each cut. When making longer cuts, stop every 12 inches and allow the blade to stop, spin the filter handle three times around then continue cutting. Keeping the filter clean is essential for proper operation and effective dust capture.

Dumping Dust and Debris
After cutting approximately 5 feet or cycling the filter five times the lower dust collection chamber will be full and must be dumped.

- (A) Using a suitable container to hold dust (5 gallon bucket or similar)
- With engine idling hold the iQ PC912 at a 45° angle over the container.

- (B) Release the dump door latch

- (C) Pull the dump door lever to open dump door.
- Wait a few seconds to allow dust and debris to slide out of the lower dust chamber.
- Spin the filter handle a few times to ensure the filter is clean allowing dust and debris to fall into the lower dust chamber.

- Pull the dump door lever to open (D) the dump door again allowing any residual dust and debris to slide out.

- Visually inspect no more dust or debris is coming out, release the door pull lever allowing the dump door to return to its closed position.

- (E) Rotate the dump door latch to the right or locking position.

Continue cutting

WARNING!
Keeping the filter clean and dust chamber emptied is essential for proper operation and effective dust capture. Failure to do so will result in poor dust collection performance and exposure to harmful dust.
Overview
The iQ PC912 power cutter is an innovative tool that integrates a power cutter and a dust collection vacuum and filtration system. Because the iQ PC912 incorporates a vacuum system, the operator needs to clearly understand how the system works, proper cutting techniques, and managing the filtration and debris dumping procedure.

Like any professional tool, understanding the proper operational procedures is essential to the safe and effective use of the iQ PC912 power cutter.

Proper cutting technique
*Always* cut with the bottom quadrant of the blade known as the **Clean Cut Zone**. Cut in a downward direction or following the indicated cutting direction arrows on the lower blade guard.

*Never* cut with the upper quadrant of the blade known as the **No Cut Zone**.

**WARNING!**
To avoid potential kickback injury and dust exposure do not cut with the upper quadrant of the blade.

Dust Guard
It’s important to keep the Dust Stop and retracting Dust Guard against the material being cut for proper dust capture.
MAINTENANCE & TROUBLE SHOOTING

If You See Dust Escaping

- **(A)** If you see dust escaping from the top of the blade guard, that means vacuum airflow has been restricted. The following items need to be checked.
  1. The spin filter needs to be spun more often.
  2. The filter cleaning tab is not engaging the filter pleats enough to clean properly. You should hear a popping sound each time the filter tab pops over a filter pleat.
  3. The lower dust chamber needs to be emptied of dust and free of dust and debris blockage.
  4. The filter may be past its operational life of 100 hours or 90 days.

If You See Dust Escaping

- **(B)** If you see dust escaping from between the engine and filter housing the following needs to be checked.
  1. The filter may be past its operational life of 100 hours or 90 days and should be replaced.

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**WARNING!**

Servicing the filter regularly is essential for proper dust capture. Failure to do so will result in poor dust collection performance and exposure to harmful dust.

**WARNING!**

Keeping the filter clean and dust chamber emptied is essential for proper operation and effective dust capture. Failure to do so will result in poor dust collection performance and exposure to harmful dust.
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, using the combination T spanner tool to release the bolts (A) and (B) holding the beam.
- Using the 5 mm ball end driver turn the belt tensioning screw (C) so that the square headed nut comes to the center of the marking on the cover (D) This automatically ensures that the belt has the correct tension. Tighten both of the bolts holding the beam using the combination T spanner tool.

Replacing the drive belt
- First release the two bolts and then the belt tensioning screw to release the belt tension.
- Now unscrew the bolts holding the beam and release the two screws holding the beam cover.
- Remove the belt from the belt pulley.
- Remove the rear belt guard by releasing the two screws holding the guard.
- The beam is now loose and can be removed from the machine.
- Remove the fan shaft bearing mount by releasing the two screws holding the bearing mount.
- Replace the drive belt.
- Assemble in the reverse order as set out for dismantling.
- Check that the blade guard is not cracked or damaged in any way. Replace when damaged.
- Check that the dust guard is not cracked or damaged in any way. Replace when damaged.

Belt pulley and clutch
Never start the engine when the belt pulley and clutch are removed for maintenance.
Carburetor
The carburetor is equipped with fixed needles to ensure the machine always receives the correct mixture of fuel and air. When the engine lacks power or accelerates poorly, do the following:

- Check the air filter and replace if necessary.
- When this does not help, contact an authorized service center.

Adjusting the idle speed
Adjust the idle speed (A) using the small screw driver (B). When an adjustment is necessary, first turn the screw clockwise until the blade starts to rotate. Now turn the screw counter-clockwise until the blade stops rotating. Recommended idle speed is 2700 RPM

WARNING! If the idle speed cannot be adjusted so that the cutting attachment stops, contact your dealer/service workshop. Do not use the machine until it has been correctly adjusted or repaired.
Spark plug
The spark plug condition is influenced by:
• Wrong fuel mixture (too much oil)/ poor quality fuel.
• Dirty filters.
These factors cause deposits on the spark plug electrodes, which may result in operating problems and starting difficulties.

• If the machine is low on power, difficult to start or runs poorly at idle speed: always check the spark plug first before taking other steps. (to access the spark plug remove the filter cover) (A)
• If the spark plug is dirty, clean it and at the same time check that the electrode gap is .030” or 0.75mm (B)
• CAUTION! Always use the recommended spark plug type! Use of the wrong spark plug can damage the piston/cylinder.

Cooling system
To keep the working temperature as low as possible the machine is equipped with a cooling system. The cooling system consists of:
1. Air intake on the starter.
2. Air guide plate.
3. Fins on the flywheel.
4. Cooling fins on the cylinder.
5. Cylinder cover
6. Muffler cooling shield
Clean the cooling system with a brush once a week, more often in demanding conditions. A dirty or blocked cooling system results in the machine overheating which causes damage to the piston and cylinder.

Muffler
The muffler is designed to reduce the noise level and to direct the exhaust gases away from the operator. The exhaust gases are hot and can contain sparks, which may cause fire if directed against dry and combustible material.

Never use a machine with a defective muffler.

WARNING! Do not start the machine without the beam or cutting head fitted. Otherwise the clutch could come loose and cause personal injuries.
MAINTENANCE & TROUBLE SHOOTING

Fuel filter
• The fuel filter sits inside the fuel tank.
• The fuel tank must be protected from contamination when filling. This reduces the risk of operating disturbances caused by blockage of the fuel filter located inside the tank.
• The fuel filter cannot be cleaned but must be replaced with a new filter when it is clogged. The filter should be changed at least once per year.

Air filter
Air filters must be regularly cleaned to remove dust and dirt in order to avoid:
• Carburetor malfunctions
• Starting problems
• Loss of engine power
• Unnecessary wear to engine parts.
• Excessive fuel consumption.
The air filter system consists of an oiled foam plastic filter (C) and a paper filter (E).
The foam pre-filter (C) is easily accessible by removing the filter cover screws (A) and removing the filter cover (B). This filter should be checked weekly and replaced if necessary. In order to obtain a good filtering effect, the filter must be replaced regularly or cleaned and oiled. A special iQ Power Tools oil has been produced for this purpose.

Remove the foam pre-filter (C). Wash the filter well in tepid soapy water. After cleaning, rinse the filter well in clean water. Squeeze out and allow the filter to dry. NOTE! High pressure compressed air can damage the foam. Put the filter in a plastic bag and pour the filter oil over it. Knead the plastic bag to distribute the oil. Squeeze the excess oil out of the filter inside the plastic bag and pour off the excess before fitting the filter to the machine. CAUTION! Never use common engine oil.
The paper filter (E) is accessible under cover (D). This filter must be replaced/cleaned when the engine’s power drops or each month. The filter is cleaned by shaking. Note that the filter must not be washed. NOTE! High pressure compressed air can damage the filter. An air filter that has been in use for a long time cannot be cleaned completely. The filter must therefore be replaced with a new one at regular intervals.
A damaged air filter must always be replaced.

IMPORTANT INFORMATION
Poor maintenance of the air filter will cause carbon build-up on the spark plug and abnormal wear to engine parts.
Starter
Changing a broken or worn starter cord
- (A) Loosen the screws that hold the starter against the crankcase and remove the starter.

- (B) Pull the cord out about 12 inches or 30 cm and lift it into the cut-out in the periphery of the starter pulley. When the cord is intact: Release the spring tension by letting the pulley rotate slowly backwards.

- (C) Remove any remnants of the old starter cord and check that the return spring works. Insert the new starter cord through the hole in the starter housing and in the cord pulley.

WARNING! When the recoil spring is wound up in the starter housing it is under tension and can, if handled carelessly, pop out and cause personal injury.
Always be careful when changing the recoil spring or the starter cord. Always wear protective goggles.
• **(D)** Secure the starter cord around the cord pulley as illustrated. Tighten the fastening well and ensure that the free end is as short as possible. Secure the end of the starter cord in the starter handle.

• **(E)** Guide the cord through the cut-out in the periphery of the pulley and wind the cord 3 times clockwise around the center of the starter pulley.

• Now pull the starter handle and in doing so tension the spring.

• Repeat the procedure once more, but this time with four turns.

• Note that the starter handle is drawn to its correct home position after tensioning the spring.

• Check that the spring is not drawn to its end position by pulling out the starter line fully. Slow the starter pulley with your thumb and check that you can turn the pulley at least a further half turn.

**Tensioning the recoil spring**

Hook the starter cord in the notch in the pulley and turn the starter pulley about 2 turns clockwise.

**Changing a broken recoil spring**

• Undo the screw in the center of the pulley and remove the pulley.

• Bear in mind that the return spring lies tensioned in the starter housing.

• Loosen the screws holding the spring cassette.

• Remove the recoil spring by turning the starter over and loosen the hooks, with the help of a screwdriver. The hooks hold the return spring assembly on the starter.

• Lubricate the recoil spring with light oil. Fit the pulley and tension the recoil spring.

**WARNING!** When the recoil spring is wound up in the starter housing it is under tension and can, if handled carelessly, pop out and cause personal injury.

Always be careful when changing the recoil spring or the starter cord. Always wear protective goggles.
Re-fitting or re-installing the starter
• To fit the starter, first pull out the starter cord and place the starter in position against the crankcase. Then slowly release the starter cord so that the pulley engages with the pawls.
• Tighten the screws.

Changing a broken recoil spring
• Undo the screw in the center of the pulley and remove the pulley.
• Bear in mind that the return spring lies tensioned in the starter housing.
• Loosen the screws holding the spring cassette.
• Remove the recoil spring by turning the starter over and loosen the hooks, with the help of a screwdriver. The hooks hold the return spring assembly on the starter.
• Lubricate the recoil spring with light oil. Fit the pulley and tension the recoil spring.

WARNING! When the recoil spring is wound up in the starter housing it is under tension and can, if handled carelessly, pop out and cause personal injury.
Always be careful when changing the recoil spring or the starter cord. Always wear protective goggles.
General maintenance instructions
Below you will find some general maintenance instructions. If you have more questions, contact your service agent.

Daily maintenance
1. Check that the components of the throttle control work smoothly (throttle control and throttle trigger lock).
2. Check the tension of the drive belt.
3. Check the condition of the blade and the drive gear.
4. Check the condition of the blade guard.
5. Check condition of the retracting dust guard.
6. Check condition of dust stop and roller.
7. Check the starter and starter cord and clean the outside of the starter unit’s air intake.
8. Check that nuts and screws are tight.
9. Check that the stop switch works correctly.
10. Check dust collection filter and filter cleaning tab for proper operation.
11. Thoroughly clean lower dust chamber of dust and debris.

Weekly maintenance
1. Check, clean or replace engine pre-filter.
2. Check that the handles and vibration damping elements are not damaged.
3. Clean the spark plug. Check that the electrode gap is .035”/0.5 mm.
4. Clean the fins on the flywheel. Check the starter and the recoil spring.
5. Clean the cooling fins on the cylinder.
6. Check that the muffler is securely attached and not damaged.
7. Check the idling setting and adjust if necessary.
8. Check dust door/frame sealing gasket for proper compression, adjust as needed.
9. Check dust collection filter (replace every 90 days or 100 hours of operation)
10. Check dust collection filter seal, lubricate as needed

Monthly maintenance
1. Check the engine paper filter
2. Check the clutch center, drive gear and clutch spring for wear.
3. Clean the outside of the carburetor.
4. Check the fuel filter and the fuel hose, replace if necessary.
5. Check that the fuel cap and its seal are not damaged.
6. Check all wires and connections.
7. Check pulley drive belt, replaced if necessary.
8. Check dump door latching and opening mechanism, replace wear parts as needed.
REMOVE AND REPLACE DUST COLLECTION FILTER:
Replacing your dust collection filter:
- Remove fasteners from front filter cover plate.
- (A) Pull filter out through opening.
- Remove filter spin knob by turning counterclockwise and remove filter cover from filter.
- Bag filter and dispose of it properly.
- Inspect and clean filter spindle.

To replace dust collection filter cleaning tab:
- (B) Remove single fastener at filter cleaning tab.
- Replace with new included tab.
- Adjust tab to engage filter pleats by 1/8” to 3/16” for proper cleaning function.

Replacing dust collection filter back into filter housing:
- (C) Inspect filter seal for proper lubrication, apply iQ filter seal lube as necessary.
- (D) Inspect bushing on filter cover plate and filter, replace new bushing with those provided with filter replacement kit.
- Install filter cover plate onto filter with bushings and secure with filter spin knob.
- Insert open end of new filter into the open housing and carefully work new filter seal onto filter spindle by rotating filter back and forth until firmly seated.
- Lineup holes on filter cover plate and install fasteners.
- Spin newly installed filter and check for proper operation.

IMPORTANT NOTE
It is HIGHLY recommended that the dust collection filter element be replaced EVERY 90 days.
### TECHNICAL INFORMATION

**ENGINE**  
- Cylinder displacement cm³: 93.6  
- Cylinder bore mm: 56  
- Stroke mm: 38  
- Idle speed rpm: 2700  
- Recommended max. speed rpm: 9000  
- Power HP/KW/RPM: 6.0/4.5/9000

**Ignition system**  
- Manufacturer of ignition system: Walbro  
- Type of ignition system: ET  
- Spark plug: NGK BPMR 7A  
- Electrode gap, mm: .030" / 0.75mm

**Fuel and lubrication system**  
- Manufacturer of carburetor: Walbro  
- Carburetor type: JS 282A  
- Fuel tank capacity, liter: 1.0

**Weight**  
- Power cutter without fuel and cutting blade: 31 lbs / 14 kg

**Dust Collection System**  
- Vacuum: 120 cfm  
- Filter: 6 sq. ft. polyester  
- Dust Capacity: 5 lbs.

### Cutting equipment

<table>
<thead>
<tr>
<th>Cutting blade</th>
<th>Max. speed of output shaft rpm</th>
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<tr>
<td>12&quot; (300 mm)</td>
<td>4750</td>
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IQ Power Tools Limited Warranty

New iQ PC912™, Power Cutter, sold by iQ Power Tools or an iQ authorized dealer is warranted to be free from manufacturing defects in normal service for a 90 day period from date of purchase by the original consumer purchaser. Warranty period for rental items is 90 days.

All iQ products must be registered either through our website or by mailing in the Warranty Card in order for the warranty to be active and valid. This Warranty shall not apply to any parts that have been subjected to misuse or improper service, damaged in transit or handling, altered or repaired by unauthorized representatives, or used with a blade that is not recommended by iQ Power Tools.

Any claim arising under this Warranty must be submitted by the original purchaser within the Warranty period specified above and must include proof of purchase. Within Warranty period, options are either to replace or repair any parts or components that are found to be defective by iQ Power Tools at no charge to the original purchaser. iQ Power Tools shall not be responsible or obligated to pay for freight or other transportation-related costs or expenses in connection with any defective products, replacements, or components that are returned to iQ Power Tools facility or any authorized repair station.

Parts and labor needed to maintain products, and the replacement of components due to normal wear and tear, are the purchaser’s responsibility and are not covered by this Warranty. All products or components replaced under Warranty become the property of the manufacturer. All replacement parts will be considered to be part of the original product and any Warranty on such parts will expire concurrently with this original Warranty.

iQ Power Tools will pay for parts and labor in connection with Warranty repairs conducted by iQ Power Tools or its authorized repair center. Replacement parts installed by anyone else will be provided without a charge but this Warranty will not apply to labor charges in connection therewith.

IN NO EVENT SHALL ANY LIABILITY UNDER THIS WARRANTY EXCEED THE REPLACEMENT COST OF ANY DEFECTIVE PRODUCT OR COMPONENT THEREOF. iQ POWER TOOLS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR ANY OTHER DAMAGE OR LOSS NOT EXPRESSLY ASSUMED AS SET FORTH HEREIN. The Warranty on the terms above is the only Warranty. This limited Warranty is expressly in lieu of all other Warranties, whether expressed or implied.