

# Clarke®



**WARNING:** Read these instructions before using the machine

## **ELECTRIC CHAINSAW**

MODEL NO: CECS405B

PART NO: 3402072

## **OPERATION & MAINTENANCE INSTRUCTIONS**



LS0612

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## INTRODUCTION

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Thank you for purchasing this Electric Chainsaw.

Please read this manual thoroughly, before attempting to operate, and carefully follow all instructions given.

It is vitally important that ALL precautions are taken, as specified, which will not only provide protection for yourself and that of others around you, but will also ensure that the product will give you long and satisfactory service.

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## GUARANTEE

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This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not affect your statutory rights.

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## SPECIFICATIONS

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Rated voltage	230 V @ 50Hz
Motor power rating	2000W
Chain speed	13.5 m/s
Chain stopping time (kickback)	<0.15 seconds
Maximum cutting length	16" (400 mm)
Oil type	Chain oil (supplied).
Dimensions (L x W x H)	830 x 265 x 191 mm
Weight	6.25 kg
Vibration level (weighted)	4.89 m/s <sup>2</sup>
<b>Noise emission data</b>	
A-weighted sound pressure level	90 db (A)
Guaranteed sound power level	109 dB Lwa

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# SAFETY PRECAUTIONS

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**WARNING: READ ALL INSTRUCTIONS. FAILURE TO FOLLOW ALL INSTRUCTIONS LISTED BELOW MAY RESULT IN ELECTRIC SHOCK, FIRE AND/OR SERIOUS INJURY. THE TERM “POWER TOOL” IN ALL WARNINGS LISTED BELOW REFERS TO YOUR ELECTRIC CHAINSAW.**

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## WORK AREA

1. **Keep work area clean and well lit.** *Cluttered and dark areas invite accidents.*
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
3. **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

## ELECTRICAL SAFETY

1. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges or refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*
2. **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
3. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
4. **Use outdoor extension leads.** *If working outdoors, always use an approved cable extension suitable for the power rating of this tool (see specifications), the conductor size should also be at least the same size as that on the machine, or larger. When using a cable reel, always unwind the cable completely. We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).*

## PERSONAL SAFETY

1. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in personal injury.*
2. **Use safety equipment. Always wear eye protection.** *Safety equipment such as dust mask, non-skid safety shoes, or hearing protection used for appropriate conditions will reduce personal injuries.*

3. **Avoid accidental starting. Ensure the switch is in the off position before connecting to the power supply.**
4. **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
5. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

## **POWER TOOL USE AND CARE**

1. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
3. **Disconnect the power before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
4. **Store idle tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
5. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*
6. **Keep cutting tools sharp and clean.** *Poorly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
7. **Use the power tool and accessories in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from intended could result in a hazardous situation.*

## **SERVICE**

1. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

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## CHAINSAW SAFETY WARNINGS:

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1. **Keep all parts of the body away from the saw chain when the chainsaw is operating. Before you start the chainsaw, make sure the saw chain is not contacting anything.** *A moment of inattention while operating chainsaws may cause entanglement of your clothing or body with the saw chain.*
2. **Always hold the chainsaw with your right hand on the rear handle and your left hand on the front handle.** *Holding the chainsaw with a reversed hand configuration increases the risk of injury and should never be done.*
3. **Hold the power tool by insulated gripping surfaces only, because the saw chain may contact hidden wiring or its own cord.** *Saw chains contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*
4. **Wear safety glasses and hearing protection. Further protective equipment for head, hands, legs and feet is recommended.** *Adequate protective clothing will reduce personal injury by flying debris or accidental contact with the saw chain.*
5. **Do not operate a chainsaw in a tree.** *Operation of a chainsaw while up in a tree may result in personal injury.*
6. **Always keep proper footing and operate the chainsaw only when standing on fixed, secure and level surface.** *Slippery or unstable surfaces such as ladders may cause a loss of balance or control of the chainsaw.*
7. **When cutting a limb that is under tension be alert for spring back.** *When the tension in the wood fibres is released the spring loaded limb may strike the operator and/or throw the chainsaw out of control.*
8. **Use extreme caution when cutting brush and saplings.** *The material may catch the saw chain and be whipped toward you or pull you off balance.*
9. **Carry the chainsaw by the front handle with the chainsaw switched off and away from your body. When transporting or storing the chainsaw always fit the guide bar cover.** *Proper handling of the chainsaw will reduce the likelihood of accidental contact with the moving saw chain.*
10. **Follow instructions for lubricating, chain tensioning and changing accessories.** *Improperly tensioned or lubricated chain may either break or increase the chance for kickback.*
11. **Keep handles dry, clean, and free from oil and grease.** *Greasy, oily handles are slippery causing loss of control.*
12. **Cut wood only. Do not use chainsaw for purposes not intended. For example: do not use chainsaw for cutting plastic, masonry or non-wood building materials.** *Use of the chainsaw for operations different than intended could result in a hazardous situation.*

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## CAUSES AND PREVENTION OF KICKBACK

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Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut.

Tip contact in some cases, may cause a sudden reverse reaction, kicking the guide bar up and back towards the operator.

Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator.

Either of these reactions may cause you to lose control of the saw which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a chainsaw user, you should take several steps to keep your cutting jobs free from accident or injury.

Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

1. **Maintain a firm grip, with thumbs and fingers encircling the chainsaw handles, with both hands on the saw and position your body and arm to allow you to resist kickback forces.** *Kickback forces can be controlled by the operator if proper precautions are taken. Do not let go of the chainsaw.*
2. **Do not overreach and do not cut above shoulder height.** *This helps prevent unintended tip contact and enables better control of the chainsaw in unexpected situations.*
3. **Only use replacement bars and chains specified by the manufacturer.** *Incorrect replacement bars and chains may cause chain breakage and/or kickback.*

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## ENVIRONMENTAL PROTECTION









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Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.

## WARNING SYMBOLS

The following symbols are displayed on the chainsaw in order to remind you of the safety precautions you should take when operating the chainsaw.

	<p><b>Warning!</b> - When using this chainsaw, basic safety precautions, including those in this user guide, should be observed to reduce the risk of fire, electric shock and personal injury.</p>
	<p><b>Warning!</b> - Read this user guide thoroughly before use and keep in a safe place for future reference.</p>
	<p><b>Warning!</b> - Wear safety goggles, ear protectors and safety helmet when using this chainsaw.</p>
	<p><b>Warning!</b> - Do not expose this chainsaw to rain, or use in damp or wet locations.</p>
	<p><b>Warning!</b> - Disconnect from the mains supply immediately if the cable is damaged or cut.</p>
	<p><b>Warning!</b> - Never cut with the tip of the blade as this may result in kickback and cause personal injury.</p>
	<p><b>Warning!</b> - Always wear gloves approved for chainsaw use.</p>
	<p><b>Warning!</b> - Always hold the chainsaw with both hands during use.</p>

## ELECTRICAL CONNECTIONS



**WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.**

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230V AC 50Hz. Connecting it to any other power source may cause damage.

This product may be fitted with a non-rewireable plug. If it is necessary to change the fuse in the plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

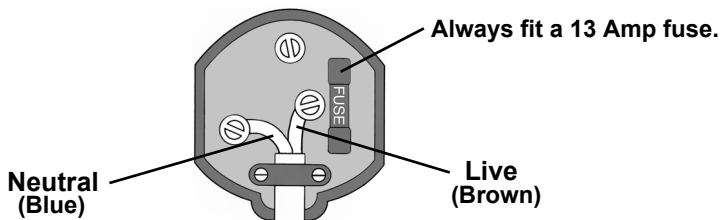


**WARNING! The wires in the power cable of this product are coloured in accordance with the following code:  
Blue = Neutral    Brown = Live**

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The wire which is coloured **Blue** must be connected to the terminal which is marked **N** or coloured **Black**.
- The wire which is coloured **Brown** must be connected to the terminal which is marked **L** or coloured **Red**.

**Plug must be BS1363/A approved.**



**Ensure that the outer sheath of the cable is firmly held by the clamp**

**We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)**

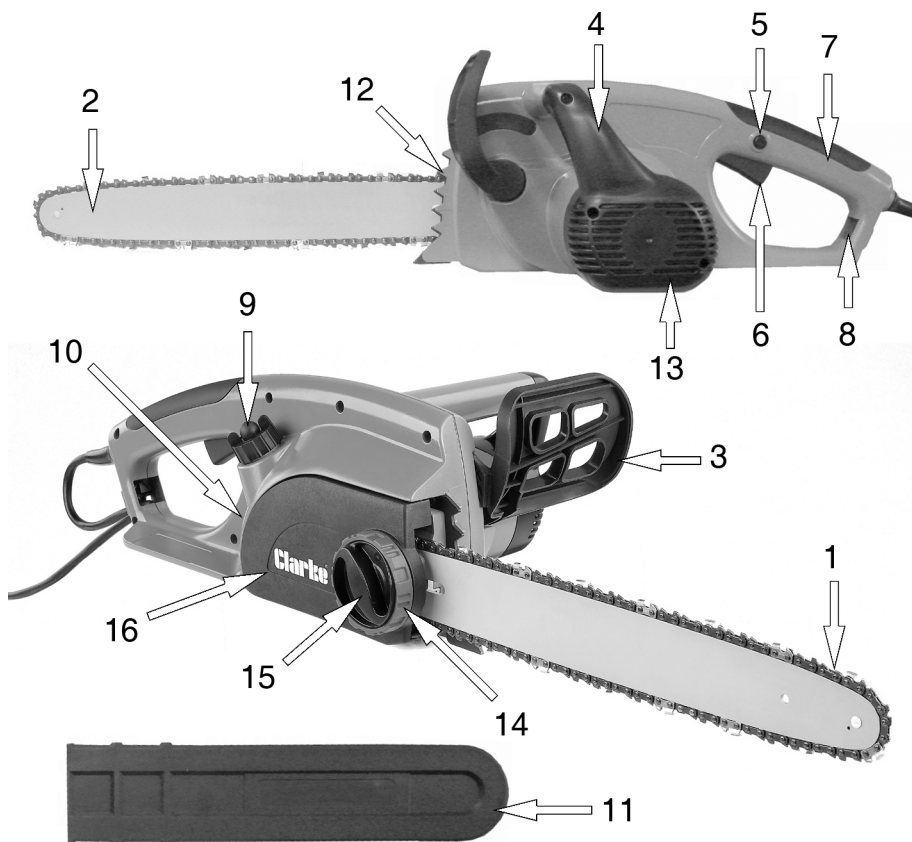
If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.



**This symbol indicates that this is a Class II product, and does not require an earth connection.**



# OVERVIEW



1	Chain	9	Oil Filler Cap
2	Chain Bar	10	Oil Level sightglass
3	Chain Brake Lever	11	Chain Scabbard
4	Front Handle	12	Gripping Teeth
5	Trigger Lock	13	Air Intake
6	On/Off Switch	14	Blade Tensioning Dial
7	Rear Handle	15	Cover Locking Screw
8	Cable Retainer	16	Housing Cover

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## ASSEMBLY

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**WARNING: FOR YOUR SAFETY AND THE SAFETY OF OTHERS MAKE SURE THAT YOU HAVE READ AND UNDERSTOOD ALL THE SAFETY WARNINGS BEFORE CONTINUING WITH THIS SECTION.**

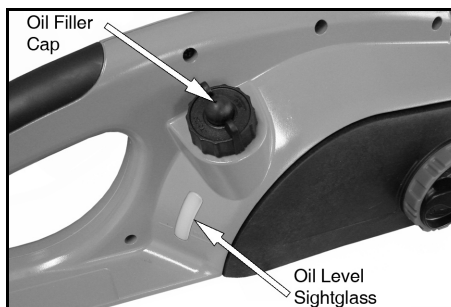
**WARNING: ENSURE THAT THE CHAINSAW IS DISCONNECTED FROM THE MAINS SUPPLY DURING ALL CHECKS AND ADJUSTMENTS IN THIS SECTION**

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### FILLING THE CHAINSAW WITH OIL

A small bottle is supplied and must be poured into the chainsaw as follows before use.

1. Place the chainsaw on a stable, level surface.
2. Unscrew and remove the oil filler cap.
3. Using a funnel, fill the oil tank with chainsaw oil (supplied).
  - The oil tank will hold 135cc of chain oil, enough to lubricate the chain for 12-15 minutes of sawing.



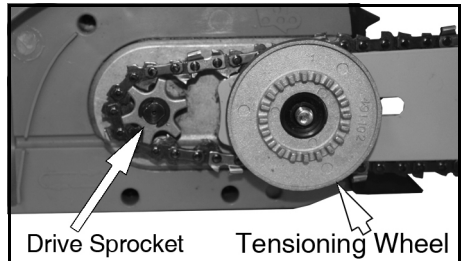
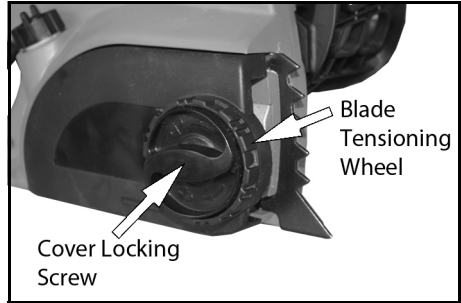
**CAUTION: YOU MUST ONLY USE CHAINSAW OIL WITH THIS CHAINSAW. USING DIFFERENT OIL MAY CAUSE DAMAGE AND INVALIDATE YOUR WARRANTY.**

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4. Refit the oil filler cap.
5. Wipe up any spillage before continuing.
6. The oil level should be checked frequently during use and topped up as necessary.
  - Chainsaw oil is available from your Clarke dealer (part number 3050865)

## ATTACHING THE CHAIN BAR AND CHAIN

1. Place the chainsaw on a stable surface.
2. Loosen the cover locking screw and remove the housing cover.
3. Put the chain onto the bar.
  - The chain bar is marked with an arrow, showing the direction in which the chain will travel.
  - The cutting teeth on the upper side of the bar must point forward.
4. Put the free end of the chain over the drive sprocket and position the bar so that the tensioning wheel attached to the bar slides over the guiding pin as shown.
5. Make sure all the chain links are seated correctly into the groove on the chain bar.
6. To secure the bar, replace the housing cover and tighten the cover locking screw finger tight.
7. Adjust the blade tension as follows.



## CHAIN TENSION

Correct chain tension is extremely important and must always be checked before starting work.

When using the chainsaw for the first time (or after replacing the chain) the tension should be checked regularly, as a new chain will stretch after several cuts.

If the chain is too loose or too tight, the sprocket, bar and chain will wear more rapidly. The tension should be sufficient to keep the chain snug on the bar, but loose enough to allow the chain to be pulled around by hand. Taking time to adjust the chain tension correctly will result in improved cutting performance and prolonged chain life.

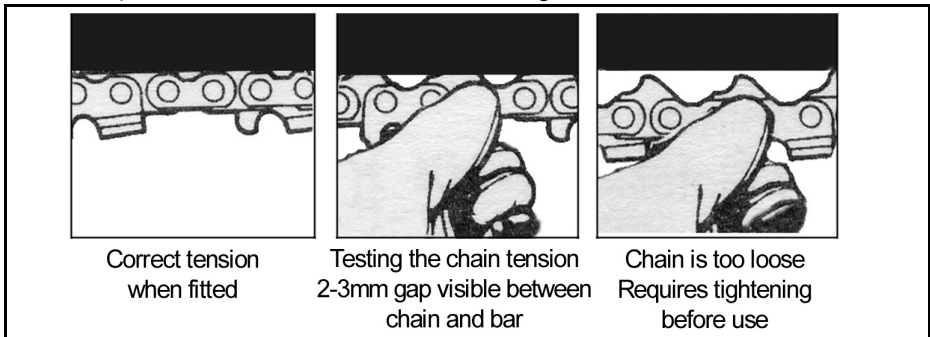
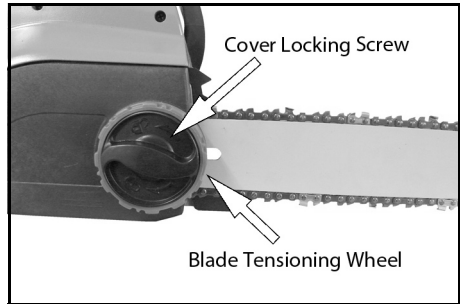
**Refer to the adjustment procedure described on the next page.**



**WARNING: ALWAYS WEAR PROTECTIVE GLOVES WHEN ADJUSTING THE CHAIN TENSION AND NEVER CHECK THE CHAIN TENSION WHEN THE CHAINSAW IS CONNECTED TO THE MAINS SUPPLY.**

**To adjust the chain tension, proceed as follows:**

1. Ensure the chain brake handle is in the **disengaged** position (the chain brake handle should be pulled back towards the handle).
2. Loosen the housing cover by slightly rotating the cover locking screw, (do not remove). See diagram.
3. Use the blade tensoning wheel to adjust the tension of the chain.
  - Turn the blade tensoning wheel clockwise to increase the tension.
  - Turn the blade tensoning wheel anticlockwise to decrease the tension.
4. Pull the chain gently downwards at the centre of the bar. The chain is correctly adjusted when gentle pulling only results in it moving 2-3 mm away from the chain bar. See centre diagram below.



Correct tension when fitted

Testing the chain tension  
2-3mm gap visible between chain and bar

Chain is too loose  
Requires tightening before use



**WARNING: FOR YOUR SAFETY AND THE SAFETY OF OTHERS MAKE SURE THAT YOU HAVE READ AND UNDERSTOOD ALL OF THE SAFETY WARNINGS BEFORE CONTINUING WITH THIS SECTION.**

5. When the chain tension is correct, re-tighten the cover locking screw securely.
6. Finally, pull the chain around the bar by hand - it should fit snugly around the bar and move freely and smoothly.

**NOTE:** If the chain binds or is difficult to rotate by hand, too much tension has been applied. Repeat steps 2 to 6, turning the blade tensoning dial clockwise slightly to reduce the tension.

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## USING THE CHAINSAW

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**WARNING: DO NOT START THE CHAINSAW UNTIL IT IS FULLY ASSEMBLED AND ADJUSTED AND YOU HAVE READ ALL RELEVANT WARNINGS / SAFETY INSTRUCTIONS.**

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For 'first time' users of this type of product, we recommend that introductory training is undertaken from an experienced person before use.

### THE CHAIN BRAKE



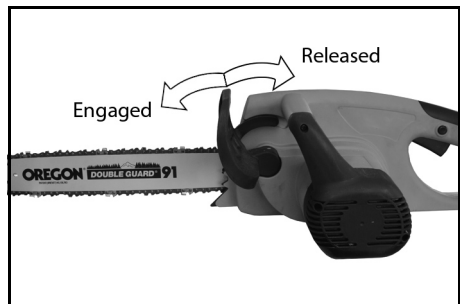
CAUTION: THE CHAIN BRAKE HAS BEEN DESIGNED TO REDUCE THE POSSIBILITY OF INJURY IF KICKBACK OCCURS. HOWEVER, IT CANNOT BE RELIED UPON TO PROTECT YOU AGAINST INJURY IF THE CHAINSAW IS USED CARELESSLY. TAKE GREAT CARE WHEN CUTTING, AND ALWAYS TEST THE BRAKE BEFORE USING THE SAW.

During kickback, the chain brake lever will strike your left forearm, engaging the chain brake.

When the brake is activated the chain will stop.

- The chain brake is **released** (the chain can move) when the chain brake lever is pulled back towards the handle.
- The brake is **engaged** (chain is stopped) when the chain brake lever pushed forward away from the handle.

Release the chain brake by pulling the chain brake lever back towards the handle.



**WARNING: IF THE CHAIN FAILS TO STOP WHEN THE CHAIN BRAKE IS ENGAGED. DO NOT USE THE CHAINSAW. YOU SHOULD RETURN YOUR CHAINSAW TO YOU CLARKE DEALER FOR ADVICE.**

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## PERSONAL PROTECTIVE EQUIPMENT

The following Personal Protective Equipment (PPE) available from your local Clarke Dealer has been designed for use with chainsaws should be worn when using the chainsaw.

- A safety helmet with mesh visor.
- Ear defenders.
- Specialist chainsaw gloves
- Trousers or chaps suitable for chainsaw use (they contain a clogging material which stops the chain if cut).
- Safety boots with toe and shin protection.
- Close fitting hi-visibility jacket.



CAUTION: NO PPE WILL OFFER 100% PROTECTION AGAINST CHAINSAW CUTS ESPECIALLY IF THE CHAINSAW IS USED IN A DANGEROUS MANNER.

## CONNECTING TO THE POWER SUPPLY

To prevent strain on the cable during use:

1. Form a small loop using the power cable.
2. Insert the loop through the rear of the handle as shown.
3. Slowly pull the loop back until the slack is removed.
4. Connect the mains plug into a suitable power socket.



**NOTE:** We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).

## HOLDING THE CHAINSAW CORRECTLY

Hold the chainsaw firmly with both hands. Always keep your left hand on the front handle and your right hand on the rear handle.

Use a firm and proper grip when holding the handles to maintain control, your finger and thumbs should encircle the handles

Keep your body to the left of the blade at all times.

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**WARNING: DO NOT USE THE FRONT GUARD AS A HANDLE.**



**WARNING: NEVER USE A LEFT HANDED (CROSS-HANDED) GRIP OR ANY GRIP THAT PLACES YOUR BODY OR ARM ACROSS THE CUTTING LINE.**

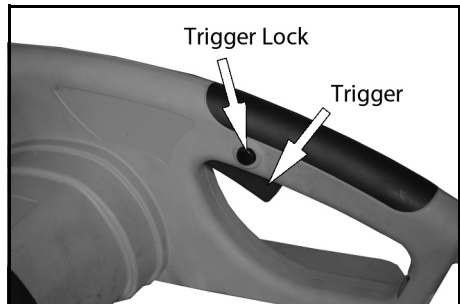
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## OPERATING THE CHAINSAW

1. Make sure that the oil tank has been filled with oil.
2. Check the chain tension.
3. Make sure that the chain brake is in the disengaged position (pulled back towards the handle).
4. Start the chainsaw by pushing the trigger lock button with your thumb and squeezing the trigger switch.

**NOTE:** Check the blade tension after every 15 minutes of use. See page 11.

5. Release the trigger to stop the chainsaw.



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## FELLING, LIMBING AND BUCKING

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**WARNING: WHEN BUCKING AND FELLING OPERATIONS ARE BEING PERFORMED BY TWO OR MORE PERSONS AT THE SAME TIME, THE FELLING OPERATIONS SHOULD BE SEPARATED FROM THE BUCKING OPERATION BY A DISTANCE OF AT LEAST TWICE THE HEIGHT OF THE TREE BEING FELLED.**

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**WARNING: DO NOT CUT DOWN A TREE DURING HIGH OR CHANGING WINDS OR IF THERE IS A DANGER TO PROPERTY. DO NOT CUT DOWN A TREE IF THERE IS A RISK OF STRIKING PHONE OR POWER LINES.**

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**WARNING: MAKE SURE THE DANGER ZONE IS IDENTIFIED & ACCESS IS RESTRICTED FOR ONLOOKERS.**

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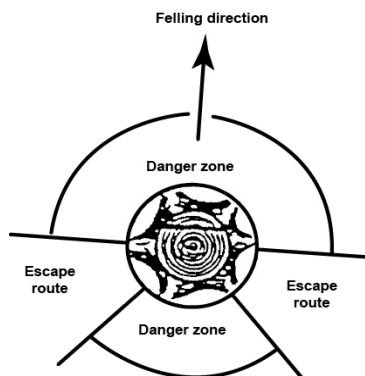
**CAUTION: BEFORE FELLING A TREE, MAKE SURE THAT THERE ARE NO LOCAL BY-LAWS OR RESTRICTIONS THAT APPLY.**

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### ESCAPE PATH

An escape path should be planned and cleared as necessary before cuts are started. The escape path should extend back and diagonally to the rear of the expected line of fall as illustrated

Before felling is started, consider the natural lean of the tree, the location of larger branches and the wind direction to judge which way the tree will fall. Remove dirt, stones, loose bark, nails, staples and wire from the tree.





## FELLING A TREE

Trees should not be felled in a manner that would endanger any person, strike any electrical utility line or cause any property damage. If the tree does make contact with any utility line, the utility company should be notified immediately.

The chainsaw operator should keep on the uphill side of the terrain as the tree is likely to roll or slide downhill after it is felled.

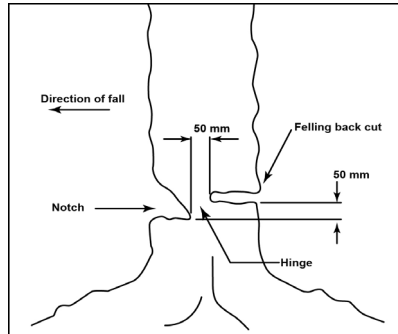
### NOTCHING UNDERCUT

Make the notch 1/3 the diameter of the tree, perpendicular to the direction of fall as illustrated.

Make the lower horizontal notching cut first. This will help to avoid pinching either the saw chain or the guide bar when the second notch is being made.

### FELLING BACK CUT

Make the felling back cut at least 50 mm higher than the horizontal notching cut as illustrated.



Keep the felling back cut parallel to the horizontal notching cut. Make the felling back cut so enough wood is left to act as a hinge. The hinge wood keeps the tree from twisting and falling in the wrong direction. Do not cut through the hinge.

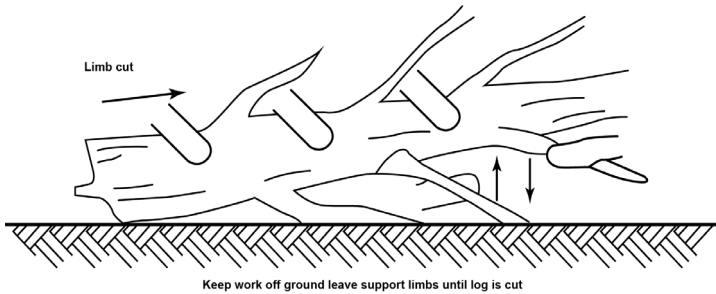
As the felling gets close to the hinge, the tree should begin to fall. If there is any chance that the tree may not fall in desired direction or it may rock back and bind the saw chain, stop cutting before the felling back cut is complete and use wedges of wood, plastic or aluminium to open the cut and drop the tree along the desired line of fall.

When the tree begins to fall, remove the chainsaw from the cut, stop the motor, put the chainsaw down, then use the retreat path planned. Be alert for overhead limbs falling and watch your footing.

## LIMBING A TREE

Limbing is removing the branches from a fallen tree.

When limbing leave larger lower limbs to support the log off the ground. Remove the small limbs in one cut as illustrated below.



Branches under tension should be cut from the bottom up to avoid binding the chainsaw.



**WARNING: DO NOT REMOVE ANY BRANCHES THAT ARE SUPPORTING THE TRUNK. THE TRUNK SHOULD BE CAREFULLY ROLLED AND SUPPORTED BEFORE ANY SUPPORTING BRANCHES ARE REMOVED.**



**WARNING: MAKE SURE THAT THE TREE TRUNK IS SAFELY SUPPORTED BEFORE LIMBING.**



**WARNING: DO NOT STAND ON THE TREE TRUNK WHILE LIMBING.**

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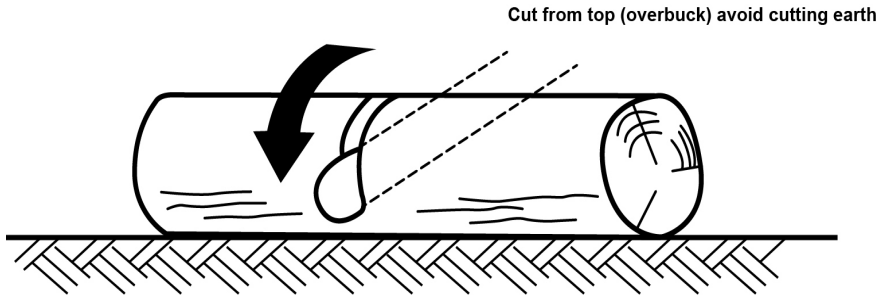
## BUCKING A LOG

Bucking is cutting a log into lengths.

It is important to make sure your footing is firm and your weight is evenly distributed on both feet. When possible, the log should be raised and supported by the use of limbs, logs or chocks. Follow the simple directions for easy cutting.

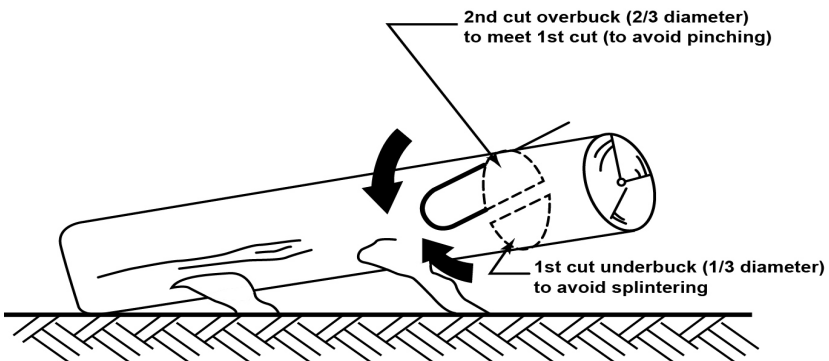
### SUPPORTED ALONG ITS ENTIRE LENGTH

When the log is supported along its entire length as illustrated below, it is cut from the top (overbuck).



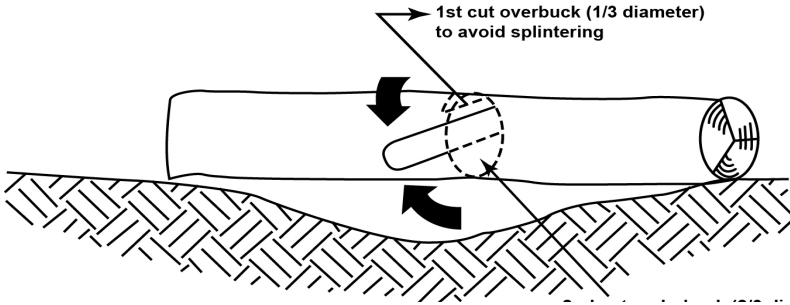
### SUPPORTED ON ONE END

When the log is supported on one end, as illustrated below, cut  $\frac{1}{3}$  the diameter from the underside (underbuck). Then make the finished cut by overbucking to meet the first cut.

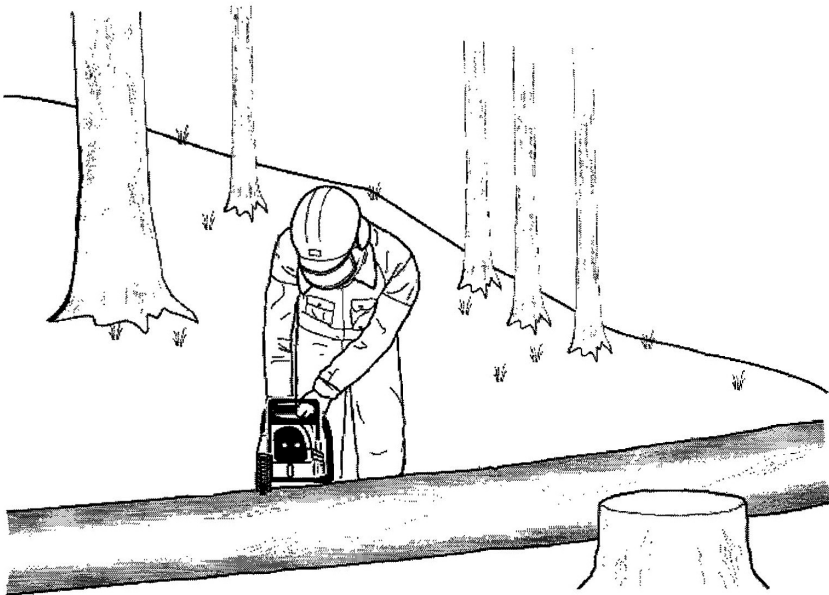


## SUPPORTED ON BOTH ENDS

When the log is supported on both ends, as illustrated below, cut 1/3 the diameter from the top (overbuck). Then make the finished cut by underbucking the lower 2/3 to meet the first cut.



When bucking on a slope always stand on the uphill side of the log, as illustrated below.



Stand on uphill side when cutting because log may roll

When "cutting through", to maintain complete control release the cutting pressure near the end of the cut without relaxing your grip on the chainsaw handles. Don't let the chain contact the ground. After completing the cut, wait for the saw chain to stop before you move the chainsaw. Always stop the motor before moving from tree to tree.

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# MAINTENANCE

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**WARNING: MAKE SURE THAT THE CHAINSAW IS DISCONNECTED FROM THE MAINS SUPPLY BEFORE CONTINUING.**

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## BAR MAINTENANCE

The following maintenance procedures must be performed to keep the chain bar in good working order.

1. After approximately 5 hours use, the bar should be turned, to ensure even wear on the top and bottom of the bar. See page 22.
2. The bar rails should be cleaned every time the bar is turned, or the chain is removed. Using a suitable implement, clear any debris from the bar rails. This will keep the oil passages open and provide correct lubrication to the bar and chain.

## OTHER MAINTENANCE PROCEDURES

1. After use, clean all excess sawdust, chippings and debris from the chainsaw, chain and chain bar using a soft brush.
2. Keep the air vents (end of motor housing) clean to prevent the motor overheating.
3. Keep the main body of the chainsaw clean using a soft cloth.
4. Check the chain tension regularly and adjust as often as necessary to keep the chain snug on the bar. A new chain will require more frequent adjustment.
5. Check the mains cable before each use. Do not use the chainsaw if the cable is damaged in any way.
6. Always check the chain brake before each use, following the procedures on page 13 of this user guide.
7. Make sure that the automatic oiler system is working properly. Keep the oil tank filled with chain oil during use.

## STORAGE

- Always store the chainsaw with the guard in place.
- Make sure that the chainsaw is stored out of the reach of children.
- Never hang the chainsaw by the handle, always store the chainsaw on a flat stable surface.

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## NEW CHAIN BAR AND CHAIN

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Only fit recommended bars and chains. Replacement chain bars (part number: HTCECS405B64) and chains (part number: 3402080) can be obtained from your CLARKE dealer.

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### REMOVING THE EXISTING BAR AND CHAIN

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**WARNING:** Make sure that the chainsaw is disconnected from the mains supply before continuing.

- 
1. Loosen the chain tension and then remove the housing cover by rotating the cover locking screw anticlockwise.



2. Using a pair of gloves, remove the existing bar and chain by pulling it towards you. Your local recycling centre can advise you on the best method of disposal.

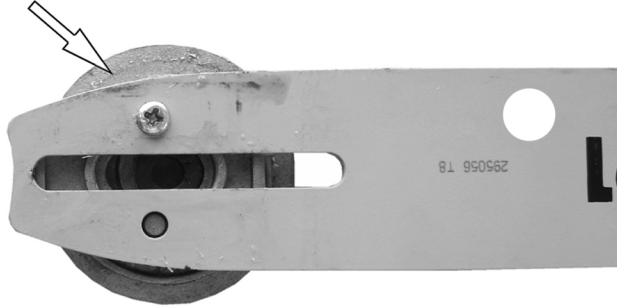
**NOTE:** When you replace the bar, you will need to remove the wheel which is attached to it and fit it onto the new bar. See the following page.

3. Make sure that any debris is cleared from the mechanism and housing using a soft brush. A clean paint brush is ideal.

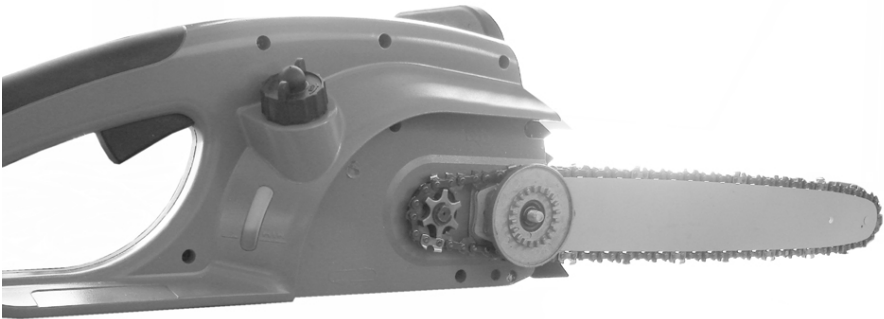
## FITTING A NEW BAR AND CHAIN

1. Fit the tensioning wheel (removed from the old bar) to the new bar as shown below.

Tensioning Wheel



2. Push the tensioning wheel and bar into position as shown below.



3. Place the chain over the sprocket, ensuring that the chain is pointing in the correct direction.
  - The chain bar is marked with an arrow, showing the direction in which the chain will travel.
  - The cutting teeth on the upper side of the bar must point forward.
4. Feed the chain around the bar, the chain will droop slightly along the bottom edge.
5. Replace the housing cover and tighten the cover locking screw hand tight.
6. Adjust the chain tension, See "Chain Tension" on page 11.

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## SPARE PARTS LIST

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Description	Part Number
Chain	HTCECS405B65
Chain Bar	HTCECS405B64
Chain Scabbard	HTCECS405B66
Tensioning Wheel	HTCECS405B18-3
Housing Cover	HTCECS405B15
Oil Filler Cap	HTCECS405B09



# DECLARATION OF CONFORMITY



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnall Street, Epping, Essex CM16 4LG

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

**Product Description:** 2000W Electric Chainsaw  
**Model number(s):** CECS405B  
**Serial / batch Number:** N/A  
**Date of Issue:** 15/05/2012  
*(Noise Conformity)*

**Notified Body:** TÜV Rheinland (Shanghai) Co, Ltd  
10-15/F  
Huatsing Building No. 88  
Lane 777  
West Guangzhong Road

**Technical Documentation Holder:** A.R. Pond  
Clarke International  
2a Shrubland Road  
London E10 7RB  
UK

**Conformity Assessment Procedure:** to 2000/14/EC Annex V  
**Manufacturer:** Clarke International  
**Noise Related Value:** 2.0 kW  
**Measured Sound Power Level:** 107 dB  
**Guaranteed Sound Power Level:** 109 dB

# DECLARATION OF CONFORMITY



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnall Street, Epping, Essex CM16 4LG

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

**We hereby declare that this product(s) complies with the following directive(s):**

- 2004/108/EC Electromagnetic Compatibility Directive.*
- 2006/42/EC Machinery Directive.*
- 2006/95/EC Low Voltage Equipment Directive.*
- 2002/95/EC Restriction of Hazardous substances.*
- 2000/14/EC Noise Emissions Directive, (amended by 2005/88/EC).*

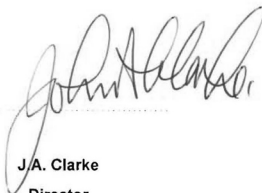
**The following standards have been applied to the product(s):**

- EN 55014-1:2006, EN 55014-2:1997+A1, EN 61000-3-11:2000, EN 61000-3-2:2006, EN 60745-1:2009, EN 60745-2-13:2009*

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

**The CE mark was first applied in: 2008**

**Signed:**



J.A. Clarke  
Director

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## **POPULAR ACCESSORIES**

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The following accessories are available from you local Clarke dealer:

### **PERSONAL PROTECTIVE EQUIPMENT**

A Wide range of Personal Protective Equipment suitable for use when using a chainsaw.

### **CHAINSAW OIL**

1 Litre (Part number 3050865)

### **SPARE CHAIN**

Replacement Oregon Chain (Part number 3402080)

### **CHAINSAW CHAIN SHARPENER**

ECSS-1 Electric Chainsaw Sharpener (Part Number 3402075) Ideal for fast accurate sharpening of all common chain types and sizes.

# A SELECTION FROM THE VAST RANGE OF

# Clarke®

## QUALITY PRODUCTS

### AIR COMPRESSORS

From DIY to industrial, Plus air tools, spray guns and accessories.

### GENERATORS

Prime duty or emergency standby for business, home and leisure.

### POWER WASHERS

Hot and cold, electric and engine driven - we have what you need

### WELDERS

Mig, Arc, Tig and Spot. From DIY to auto/industrial.

### METALWORKING

Drills, grinders and saws for DIY and professional use.

### WOODWORKING

Saws, sanders, lathes, mortisers and dust extraction.

### HYDRAULICS

Cranes, body repair kits, transmission jacks for all types of workshop use.

### WATER PUMPS

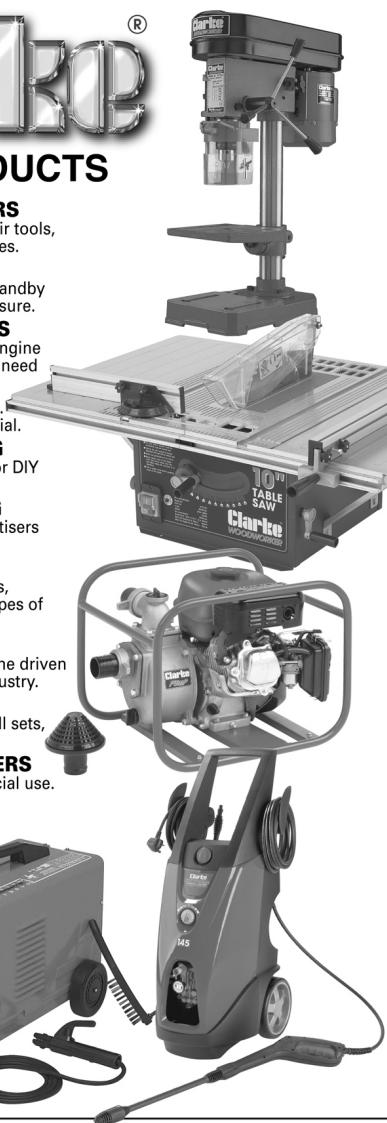
Submersible, electric and engine driven for DIY, agriculture and industry.

### POWER TOOLS

Angle grinders, cordless drill sets, saws and sanders.

### STARTERS/CHARGERS

All sizes for car and commercial use.



**PARTS & SERVICE: 020 8988 7400**

**E-mail: [Parts@clarkeinternational.com](mailto:Parts@clarkeinternational.com) or [Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)**

**SALES: UK 01992 565333 or Export 00 44 (0)1992 565335**

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