

COBRA

MODEL: CM32E

COBRA LAWN MOWER OWNER'S MANUAL



Cobra Garden Machinery

Henton and Chattell Ltd., London Road, Nottingham NG2 3HW UK

www.cobragarden.co.uk

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KNOW YOUR LAWN MOWER

Read this manual carefully, observing the recommended safety instructions before, during and after using your lawn trimmer. Following these simple instructions will also maintain your lawn trimmer in good working order. Familiarize yourself with the controls on your mower before attempting to operate it, but above all, be sure you know how to stop your mower in an emergency. Retain this user manual and all other literature with your mower for future reference.

1. SYMBOLS MARKED ON THE PRODUCT



Read this instruction book carefully before using the lawn mower and keep it in a safe place for future reference.



Keep bystanders away.



Beware of sharp blades. Blades continue to rotate after the motor is switched off.



Remove the plug from the machine before maintenance or if cord damaged.



Keep the supply flexible cord away from the cutting blades.



CE Marking

The product meets demands and regulations set by the European Community.



WEEE Marking

CAUTION! Unusable power tools do not belong with domestic waste. They must be taken to a communal collecting point for environmentally friendly disposal in accordance with local regulations.



Noise level marking

Your tool noise is not more than 96dB.



SAFETY ALERT SYMBOL: Indicates caution or warning may be used in conjunction with other symbols or pictures.

DOUBLE INSULATED



Your mower is double insulated.

This means that all external parts are electrically isolated from the power supply. This is achieved by placing an extra insulation barrier between the electrical and mechanical parts.

2. GENERAL SAFETY RULES

The purpose of the safety rules is to attract your attention to possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.



WARNING: This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.



WARNING: Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury. Save owners manual and review frequently for continuing safe operation and instructing others who may use this tool.

1. Before use check the supply and extension cord for signs of damage or worn. If the cord becomes damaged during use, disconnect the cord from the supply immediately.
DO NOT TOUCH THE CORD BEFORE DISCONNECTING THE SUPPLY.
2. **Do not use the appliance if the cord is damaged or worn.**
3. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. Use suitable outdoor power cords.
4. Do not touch the blade before the machine is disconnected from the supply and the blade have come to a complete stop.
5. Always keep extension cords away from the blade. The blade can cause damage to the cords and lead to contact with live parts.
6. Always disconnect the power supply (i.e. by removing the plug from the wall socket)
 - whenever leaving the machine unattended
 - before clearing a blockage
 - before checking, cleaning or working on the machine
 - after striking a foreign object
 - whenever the machine starts vibrating abnormally
7. When servicing the blades be aware that, even though the power source is switched off, the blades can still be moved.
8. Residual Current Device (RCD) with a tripping current of not more than 30 mA is recommended.



WARNING: The operation of any tool can result in foreign objects being thrown into your eyes, which can result in eyes severely damaged. Before beginning power tool operation, always wears safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shield.

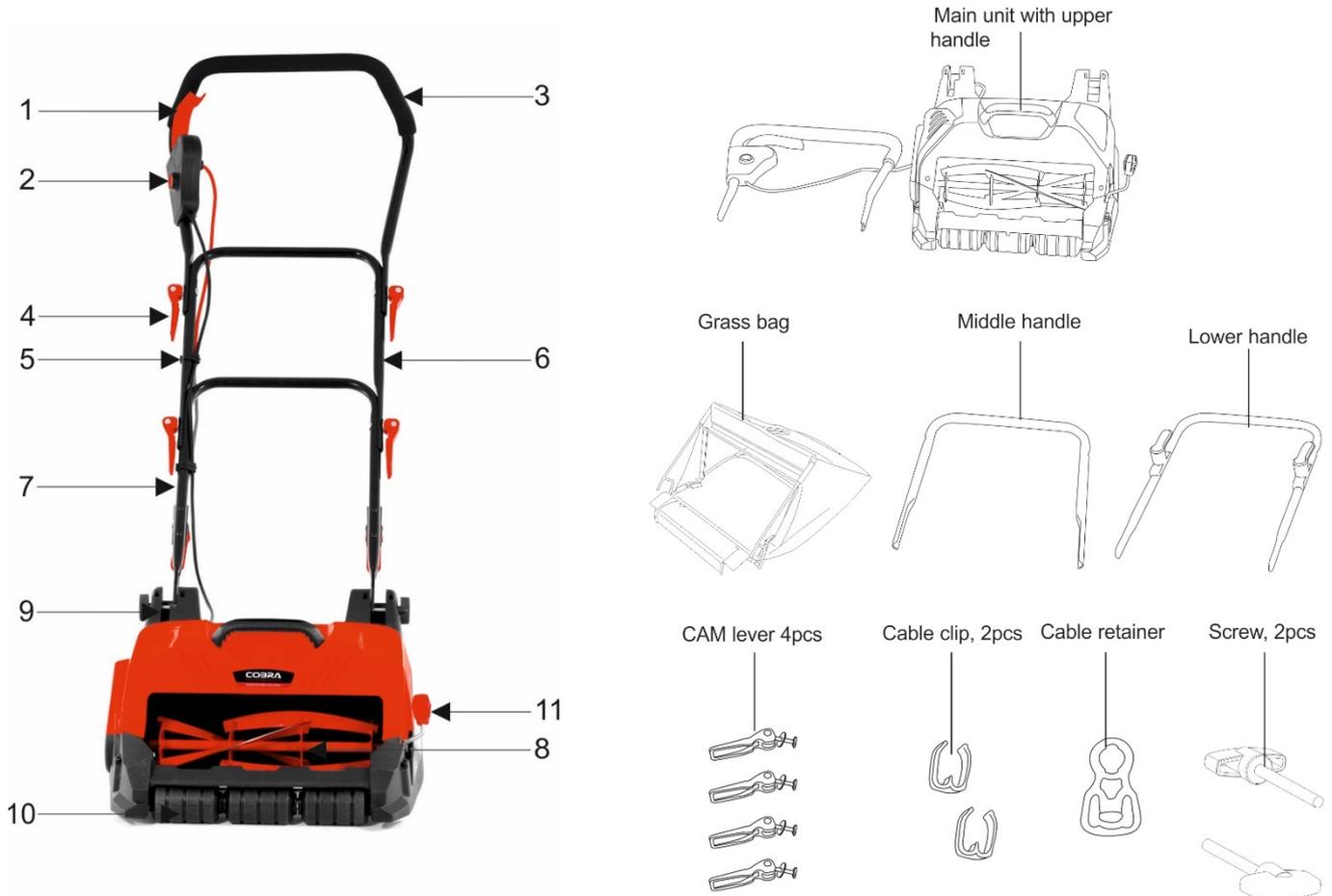
IMPORTANT
READ CAREFULLY BEFORE USE.
KEEP FOR FUTURE REFERENCE.

1. Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
2. Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations can restrict the age of the operator
3. Never mow while people, especially children, or pets are nearby.
4. The operator or user is responsible for accidents or hazards occurring to other people or their property.
5. While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals; Avoid wearing clothing that is loose fitting or that has hanging cords or ties.
6. Thoroughly inspect the area where the equipment is to be used and remove all objects which can be thrown by the machine.
7. Before using the mower, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance. Replace damaged or unreadable labels.
8. Mow only in daylight or in good artificial light;
9. For best results avoid operating the equipment in wet grass, where feasible.
10. Always be sure of your footing on slopes
11. Walk and never run with the mower.
12. For wheeled rotary machines: mow across the face of slopes, never up and down.
13. Take extra care when changing direction on slopes.
14. Do not attempt to mow excessively steep slopes.
15. Take extra care when reversing or pulling the lawnmower towards you.
16. Stop the mower blades if the lawn mower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawn mower to and from the area to be mowed.
17. Never operate the lawnmower with defective guards, or without safety devices, for example deflectors and/or grass catchers, in place.
18. Start or switch on the motor carefully according to instructions and with feet well away from the blades.
19. Do not tilt the lawnmower when starting the motor.
20. Do not start the motor when standing in front of the discharge chute.
21. Do not put hands or feet near or under rotating parts, Keep clear of the discharge opening at all times.
22. Never pick up or carry a lawnmower while the motor is running.
23. Stop the motor and disconnect the plug. Make sure that all moving parts have come to a complete stop.
 - whenever you leave the machine;
 - before clearing blockages or unclogging chute;
 - before checking, cleaning or working on the lawnmower;
 - after striking a foreign object. Inspect the lawnmower for damage and make repairs before restarting and operating the lawnmower;
 - If lawnmower starts to vibrate abnormally (check immediately);
 - inspect for damage;
 - replace or repair any damage parts.
 - check for and tighten any loose parts.
24. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
25. Check the grass catcher frequently for wear or deterioration.
26. Replace worn or damaged parts for safety.
27. Children should be supervised to ensure that they do not play with the appliance.
28. This appliance is not intended for use by persons (including children) with reduced physical, sensory or

mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

29. Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine.
30. Always allow the machine to cool before storing.
31. Replace worn or damaged parts for safety; Use only genuine replacement parts and accessories.
32. Be careful during adjustment of the appliance to prevent entrapment of the fingers between moving blades and fixed parts of appliance.

3. GENERAL PARTS IDENTIFICATION



- | | | | |
|-------------------------|-----------------------|-----------------|---------------------|
| 1. Main switch | 2. Safety lock switch | 3. Upper handle | 4. Cam-lock handle |
| 5. Cable retainer | 6. Middle handle | 7. Lower handle | 8. Cutting cylinder |
| 9. Handle pivot to body | 10. Front rollers | | |

4. TECHNICAL DATA

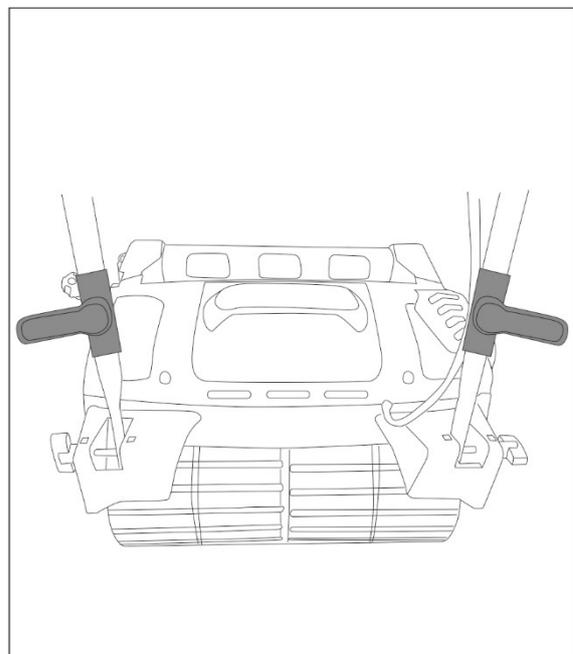
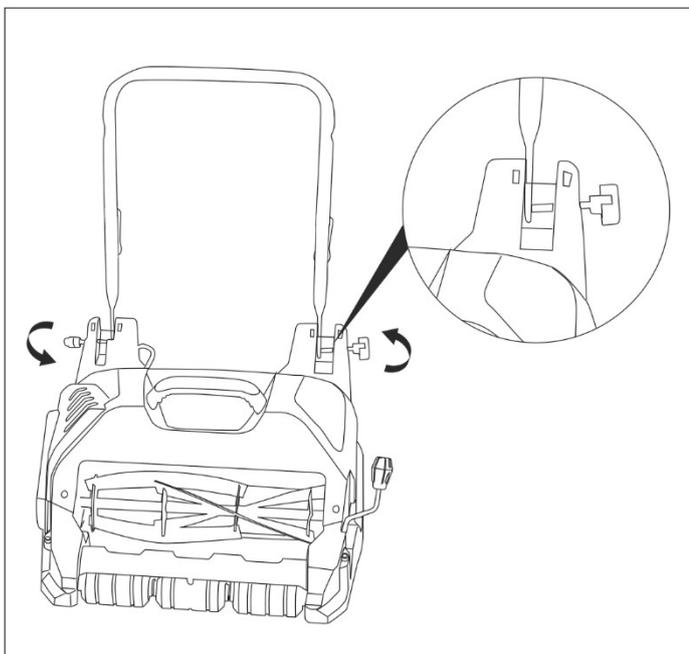
Model:	CM32E
Rated Voltage:	230V~
Rated Frequency:	50Hz
Rated Power:	400W
No Load Speed:	3400/min
Cutting Width:	320mm
Grass catcher:	Included
Net weight:	12kg
Height adjustment :	18-38mm, 3 adjustment
Sound pressure level at the operator's position	74dB(A) K=4 dB(A)
Measured sound power level	94dB(A) K= 4 dB(A)
Guaranteed Sound power level	96dB(A)
Vibration	2.323m/s ² K=1.5 m/s ²

5. ASSEMBLY

Carefully remove all parts the of the mower from the carton. Retain the box and all packaging for warranty purposes.

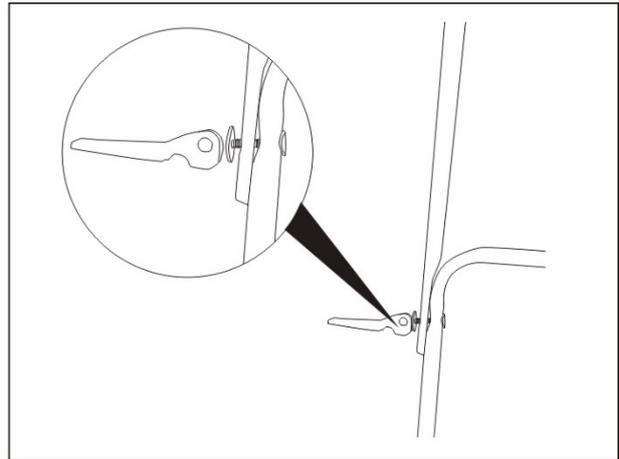
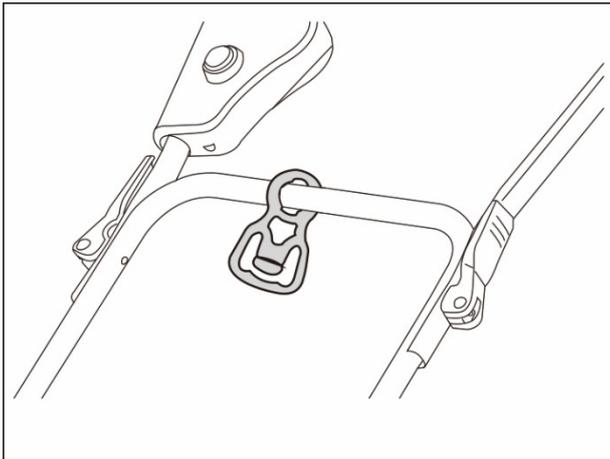
5.1 ASSEMBLY THE LOWER HANDLE

To assemble the lower handles into the main body of the mower, firstly locate the lower handle into the slot of the body. Then tighten the fixing screws on each of the sides as shown below.



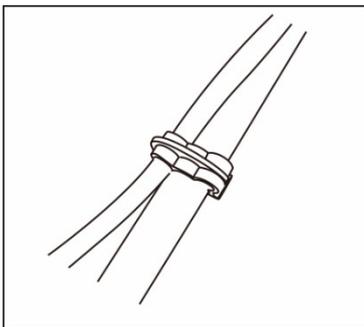
5.2 ASSEMBLY- THE MIDDLE & UPPER HANDLE

1. Firstly, slide the cable holder / retainer onto the middle handle, position it around the top of the handle so it does not fall off during the following assembly steps.



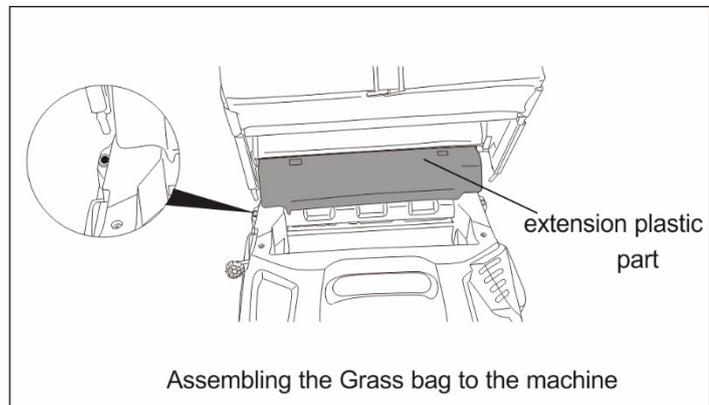
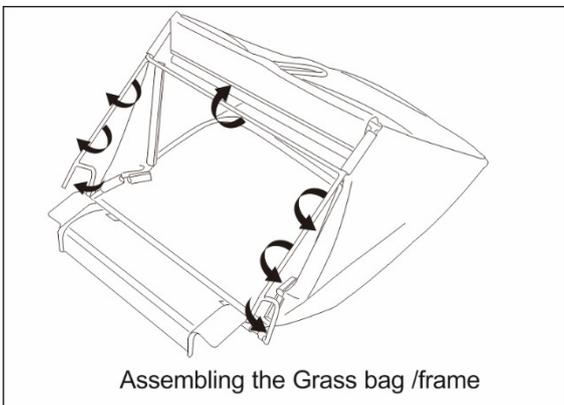
2. Slide the middle handle into the profiled area of the lower handle frame. Making sure that the holes of both sides of the upper handle are directly aligned with the holes of the frame.
3. Secure the upper handle to the middle handle frame with the cam-lock lever and bolts provided.
4. Repeat the above process on the upper and lower handle.

5.3 FITTING THE CABLE CLIPS ON THE HANDLE BARS



The cable clips should be used to secure the cable to the lower and middle handle frames.

5.4 FITTING THE GRASS BAG

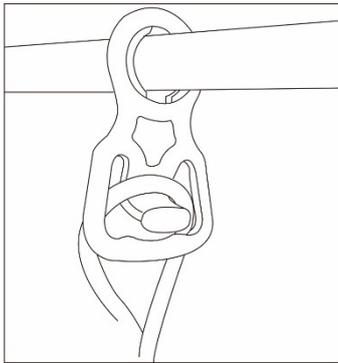


1. Place the fabric of the bag over the frame as shown and then push fit the fixings over the frame.
2. When assembling the grass bag onto the machine, lift the front plastic cross strap and locate the 2 pins into the slot holes on the deck. The plastic extension flap should be located on the bar above the front roller.

5.5 BEFORE CONNECTING TO THE POWER SUPPLY

⚠ WARNING: READ ALL THE INSTRUCTIONS BEFORE PROCEEDING

1. Never use the mower if the power cable is damaged or cut in anyway. Replace the cable before using.
2. Do not use the use the mower in damp conditions.
3. Use a Residual Current Device (RCD) as a safety precaution.
4. Only extension cables suitable for outside use should be used. Always fully unwind the cable fully, coiled cables may overheat and reduce the efficiency of the mower.
5. The cross section of the wire of the extension cable must 1.5mm or greater for cables up to 15m in length. Where the extension cable is 15m to 40m long ensure the wire diameter is 2.5mm or more.
6. The power rating of the mower is 230-240 VAC 50Hz. The plug is fitted with a 13amp fuse.



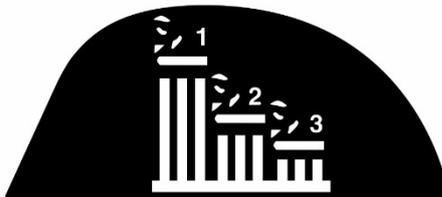
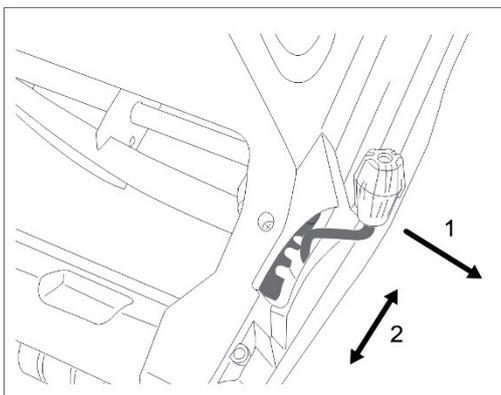
Fitting the cable clip:

1. Ensure the mower cable is not powered before proceeding.
2. Fold the cable to form a loop and then pass the loop through the large slot as shown opposite, such that the cable hooks over the middle peg.
3. The cable clip is designed to protect the connection in the switch box.

6. OPERATING THE MOWER

⚠ WARNING: ALWAYS UNPLUG THE MOWER BEFORE UNDERTAKING ANY ADJUSTMENTS TO THE MOWER. WEAR SAFETY GLOVES WHEN WORKING MAINTAINING THE MOWER.

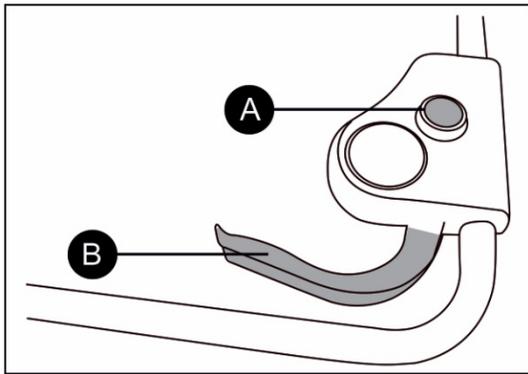
6.1 CHANGING THE CUTTING HEIGHT



1. The mower has 3 heights of cut. Position 3 is the lowest height of cut, which is 18mm. The highest height of cut is 38mm and the middle position is 28mm.
2. To change the height of cut pull the lever outward away from the mower and then move the lever to the side to select the required cutting height. Release the lever gently to lock the position.

6.2 OPERATING THE ON/OFF SWITCH

⚠ WARNING: THE MOWER IS FITTED WITH A TWO STAGE SAFETY SWITCH. ENGAGE THE LOCK SWITCH BEFORE PULLING THE LEVER.



TO SWITCH ON:

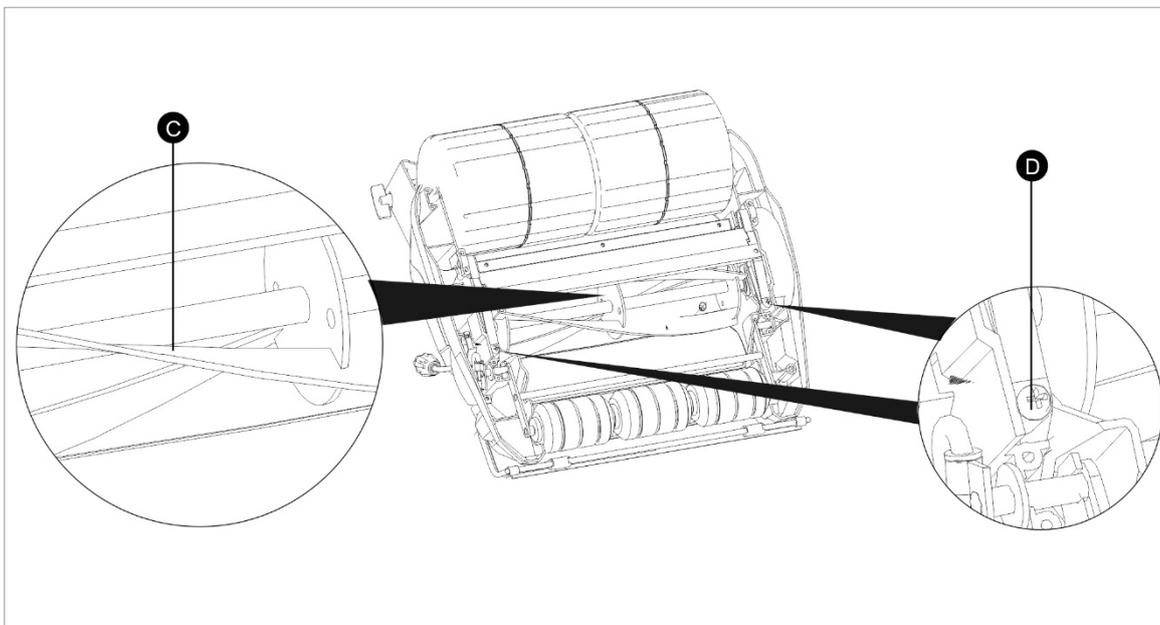
1. Press the switch lock button (A)
2. Pull the switch lever (B) and release the switch lock button (A)

TO SWITCH OFF:

Release the switch lever (B)

6.3 ADJUSTING THE BOTTOM BLADE AND CUTTING CYLINDER

⚠ WARNING: FIRST UNPLUG THE POWER SUPPLY AND WEAR GLOVES



The cylinder mower has two sets of the blades. The cylinder blade (c) and the bottom blade. The two blades cut the grass in a similar way to a pair of scissors and provide a clean cut when correctly adjusted. The bottom blade adjustment screw (D) allows the distance from the two blades to be adjusted.

1. Turn the mower upside down as shown above. To close the gap between the cylinder and the bottom blade turn the adjustment screw on each clockwise a small amount.
2. Wearing gloves carefully test that the blades are just in contact by rotating the cylinder by hand. If the blades are too difficult to rotate then adjust the screws anti-clockwise. Repeat the process and ensure that both sides are adjusted to a similar gap.
3. The final test involves a sheet of paper (approximately 0.12mm thick). Insert the paper between the two blades, then rotate the cylinder to check if the paper cleanly cuts. Check across the width of the blade, cuts sharply. Adjust as necessary to achieve a scissor like cut finish.
4. Once adjusted correctly, turn the mower back onto its correct side and power the mower. Test the mower cuts cleanly. It will be necessary to periodically re-test and adjust the bottom blade to ensure it cuts cleanly.

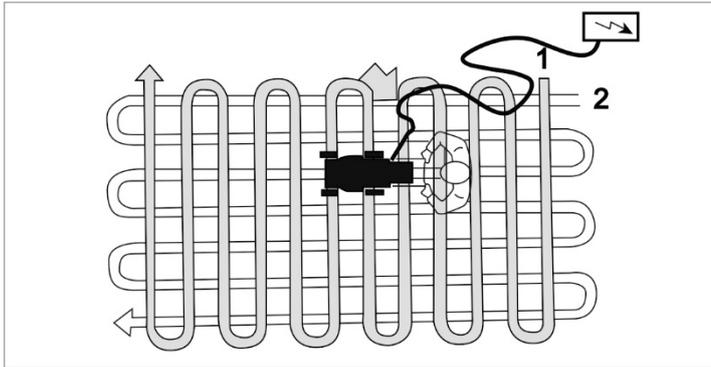
6.3 OPERATING THE MOWER

WARNING:

- Always keep a firm hold of the mower handle with both hands and beware of others in the area. The blades may cause an accident. Be careful while moving backwards –danger of tripping!

To avoid damage to the mower:

- Never lift or drag the tool with the motor running.
- When mowing, do not allow the motor to labour particularly in heavy conditions.
- When the motor labours, the speed of the motor drops and you will hear a change in the motor sound, you should stop the mowing immediately and release the switch lever and raise the height of cut.



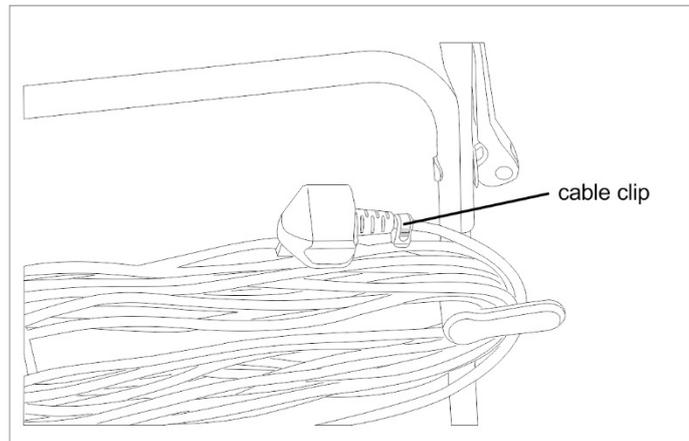
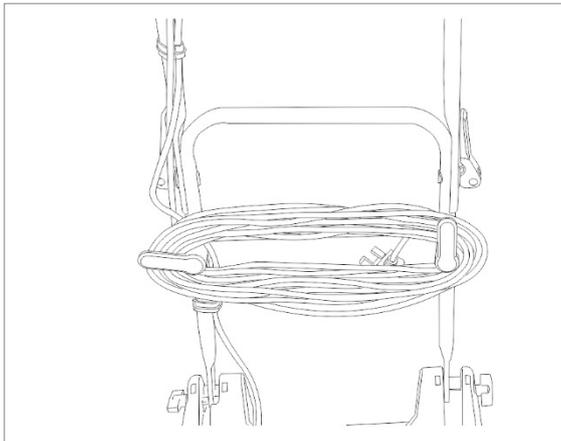
CORRECT MOWING PATH:

1. Position the mower on the edge/side of the lawn.
2. Always start mowing away from the mains socket, to avoid entangling or cutting the cable.
3. Ensure the cable is never in the path of the mower.

Check the quality of the cut and adjust as necessary.

7. STORAGE AND TRANSPORTATION

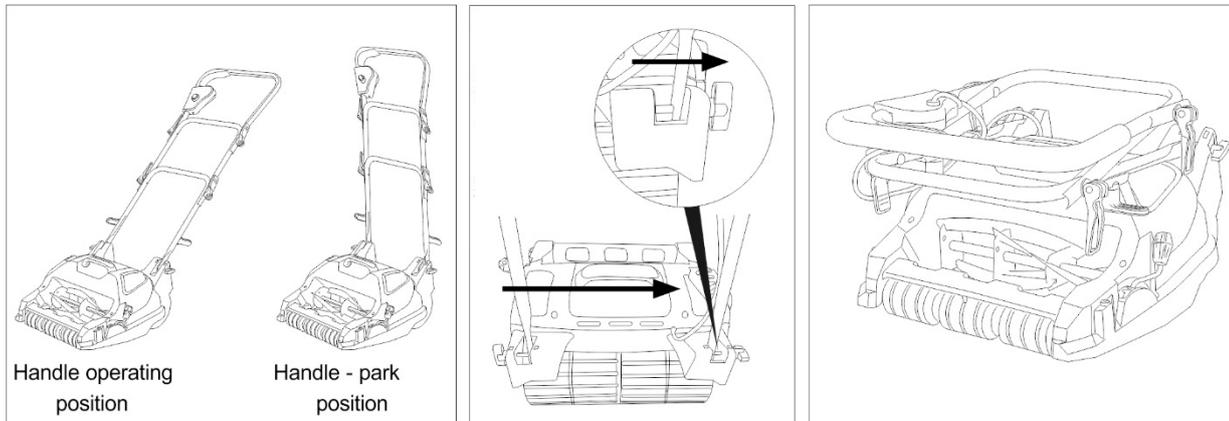
7.1 CABLE TIDY SYSTEM



The mower has a cable tidy system. After use, wrap the mower cable around the cable hooks and secure the plug in place. To release the extension cable for machine use, just rotate the cable hook.

7.2 STORING THE MOWER

⚠ WARNING: DISCONNECT THE PLUG FROM THE SOCKET FIRST



The handles of the mowers fold down to allow for compact storage. Push the lower handle to the right and then rotate forward, make sure the lower handle is out of the block position. Release the cam-lock levers and fold the handle down.

⚠ WARNING: STORE THE MOWER IN A DRY AND SECURE LOCATION AWAY FROM CHILDREN

7.3 TRANSPORTATION

1. Always ensure the mower is switched off and disconnect it from power supply before transporting.
2. Always use the carry handle in the middle of the mower.
3. Ensure the mower is protected and secured during transportation to avoid damage.

8. TROUBLESHOOTING



Warning: before performing any maintenance or cleaning work, always pull out the mains plug and wait until the cutter has come to a standstill.

CAUTION! Faults which cannot be rectified with the aid of this table may be rectified by a Cobra Service Centre only.

Problem	Possible Cause	Solution
Mower does not start	<ol style="list-style-type: none"> 1. Not connected to power supply 2. Power connection is loose 3. Other electrical defect to the product 	<ol style="list-style-type: none"> 1. Connect to the power supply 2 & 3 Check with a Cobra dealer
Mower does not reach full power	<ol style="list-style-type: none"> 1. Extension cord not suitable for operation with this mower 2. Power source (e.g. generator) has too low voltage 3. Mowers internal wiring damaged 	<ol style="list-style-type: none"> 1. Use a proper extension cord 2. Connect to another power source 3. Contact a Cobra dealer
Mower not cutting	<ol style="list-style-type: none"> 1. Height of cut too low 2. Blades off cut 	<ol style="list-style-type: none"> 1. Increase height of cut (See -Adjusting the cutting height) 2. Blades require adjustment (See-Adjusting the blades clearance)
Mower leaves a ragged finish	<ol style="list-style-type: none"> 1. Cutting blades are off cut 	Blade require adjustment (See-Adjusting the blades clearance)
Cutting blades not rotating	<ol style="list-style-type: none"> 1. Cutting blades obstructed 2. Belt is slipping or is damaged 	<ol style="list-style-type: none"> 1. Clear obstruction 2. Contact a Cobra dealer
Excessive vibration/ noise	<ol style="list-style-type: none"> 1. Cutting blades damaged 2. Cutting blades not adjusted evenly 	<ol style="list-style-type: none"> 1. Contact a Cobra dealer 2. Blades require adjustment (See-Adjusting the blades clearance)
Rollers do not rotate	Roller is blocked by debris	Clean all roller slots

9. WARRANTY

This product is warranted in accordance with legal regulations for a 24 month period effective from the date of purchase by the first user.

This product will not be covered if used in a commercial application.

This warranty covers all material or production failures, it does not include: defects from normal wear and tear, parts such as, bearings, brushes, cables, air cleaning elements, brake pad, clutch disc, tyre, wheel, recoil starter rope, belts, cutter blades, plugs, lubricant oils and grease or accessories. Damage or defects resulting from abuse, accidents or alterations, natural fading of painted or plated surfaces, sheet peeling and other natural deterioration.

Any damage that occurs from the use of non-genuine Cobra parts will not be covered.

We reserve the right to reject any claim where the purchase cannot be verified or when it is clear that the product was not maintained properly. (Clean ventilation slots, carbon brushes and serviced regularly)

Expenses incidental to the warranty claim that are not covered;

-Compensation for loss of time, commercial loss or rental costs of substitute product.

-Costs incurred for transportation to and from the dealership.

Any damage that occurs from the following will not be covered; exposure of the product to smoke and soot, chemical agents, bird droppings or other animal waste, seawater, sea breeze, salt or other environmental phenomena.

Any damage resulting from operating methods other than those indicated in the owner's manual will not be covered.

Your purchase receipt must be kept as proof for date of purchase. Your un-dismantled mower must be returned to your dealer in an acceptably clean state, accompanied by your proof of purchase.

Please Register Your Mower

If your dealer did not collect registration information from you, please take a few minutes and register your purchase with Cobra.

You can register by completing and mailing the registration card that should be in the box or by going online to: www.cobragarden.co.uk and clicking on Product Registration.

Before using the lawn mower, all mower operators must read this manual

10. ENVIRONMENTALLY FRIENDLY DISPOSAL



According to EU directive 2012/19/EU on electric and electronic equipment and its implementation into national law, all electric tools must be separately collected and environmentally friendly recycled. Alternative disposal: If the owner of the power tool does not return the tool to the manufacturer, he is responsible for proper disposal at a designated collection point that prepares the device for recycling according to national recycling laws and regulations. This does not include accessories and tools without electric or electronic components.



11. EC-DECLARATION OF CONFORMITY

EC Declaration of Conformity	
We herewith declare,	Cobra Garden Machinery Henton & Chattell Ltd, London Road, Nottingham NG2 3HW United Kingdom
that the following machine complies with the appropriate basic safety and health requirements of the EC Directive based on its design and type, as brought into circulation by us.	
In case of alteration of the machine, not agreed upon by us, this declaration will lose its validity	
Machine Description:	Lawn Mower
Machine Type:	CM32E
Rated voltage/power	230V~50Hz,400W
Measured sound power level:	94dB(A)
Guaranteed sound power level:	96dB(A) Notified Body for EC Directive 2000/14/EC:0036 AV Technology Ltd Avtech House, Arkle Avenue, Stanley Green Trading Estate, Handforth, Cheshire SK9 3RW
Applicable EC Directives	EC Machinery Directive:2006/42/EC EC- Low voltage directive:2006/95/EC EC Directive of Electromagnetic Compatibility:2004/108/EC EC Directive of noise emission: 2000/14/EC&2005/88/EC
Applicable Harmonized Standards	EN 60335-1 EN 60335-2-77 EN 62233 EN 55014-1 EN 55014-2 EN 61000-3-2 EN 61000-3-11
Authorized Signature/Date	 Peter J. Chaloner 02-12-2016
Title of Signatory	Managing Director
Name and address of the person authorised to compile the technical file	Cobra Garden Machinery Henton & Chattell Ltd, London Road, Nottingham NG2 3HW United Kingdom