

COBRA

RM46SPCE

COBRA LAWN MOWER OWNER'S MANUAL



Cobra Garden Machinery

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! WARNING:

For your own safety please read this manual before attempting to operate your new mower. Failure to follow instructions can result in serious personal injury. Spend a few moments to familiarise yourself with your mower before each use.

1. SYMBOLS MARKED ON THE PRODUCT



Fig. A

- B.1 Read Operator's Manual.
- B.2 Keep bystanders away.
- B.3 Pay attention to the operator's hands and feet to avoid injury.
- B.4 Fuel is flammable, keep fire away. Do not add fuel when the machine is running.
- B.5 Toxic fumes; don't operate indoors, including your garage or shed.
- B.6 When mowing, please wear protective glasses and ear plugs to defend the operator himself.
- B.7 When repairing, please remove the spark plug, before undertaking repair work according to the operational manual.
- B.8 Caution: Engine hot.



Figure B: Safety Label Found On The Lawn Mower: KEEP HANDS AND FEET AWAY.

2. GENERAL SAFETY RULES

! WARNING: When using petrol tools, basic safety precautions, including the following, should always be followed to reduce the risk of serious personal injury and/or damage to the unit. Read all these instructions before operating this product and retain these instructions for future reference.

! 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.

Training

1. Before using the lawnmower read the instructions carefully. Familiarise yourself with the controls and pay particular attention in learning how to stop the machine in an emergency.
2. Never allow children or people unfamiliar with these instructions to use the lawn mower. Local regulations can restrict the age of the operator.
3. Never mow while people, especially children or pets are nearby.
4. Never use the mower if the operator is taking medicine or substances that could affect or impair his ability to react or concentrate.
5. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

Before you start

1. While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open toed sandals.
2. Thoroughly inspect the area where the equipment is to be used and remove all objects which can damage or be thrown by the machine.
3. WARNING - Petrol is highly flammable.
 - Store fuel in containers specifically designed for this purpose.
 - Refuel outdoors only and do not smoke while refuelling; add fuel before starting the engine.
 - Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot.
 - If petrol is spilled, do not attempt to start the engine, but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated.
 - Replace all fuel tank and container caps securely.
4. Replace faulty silencers.
5. Before using, always visually inspect to see that the blade, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.

Operation and Caution

1. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect, refuel outdoors only.
2. Mow only in daylight or in good artificial light.
3. Avoid operating the equipment in wet grass, where feasible.
4. Always be sure of your footing on slopes.
5. Walk, never run, always be in control of the lawnmower and never allow yourself to be pulled along.
6. For wheeled rotary machines, mow across the face of slopes, never up and down.
7. Exercise extreme caution when changing direction on slopes.
8. Do not mow excessively steep slopes of more than 20°
9. Use extreme caution when reversing or pulling the lawn mower towards you.
10. Stop the blade 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
11. Never operate the lawn mower with defective guards, or without safety devices, for example deflectors and/or grass catchers, in place.
12. Do not change the engine governor settings or over speed the engine.
13. Before starting the engine disengage all blades and drive clutches.
14. Keep your feet well away from the blade when starting the engine and in accordance with the instructions.
15. Do not tilt the lawn mower when starting the engine and always start on a flat surface free from long

grass.

16. Do not start the engine when standing in front of the discharge chute.
17. Never put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
18. Always ensure the engine is fully switched off before picking up/carrying the Lawnmower.
19. Stop the engine and disconnect the spark plug wire, make sure that all moving parts have come to a complete stop and, where a key is fitted remove the key, make sure engine has had time to cool.
 - Before unclogging chute and clearing blockages.
 - Before checking, cleaning or working on the lawn mower.
 - After striking a foreign object. Inspect the lawnmower for damage and make repairs before restarting.
 - If the lawn mower starts to vibrate abnormally (check immediately).
20. Stop the engine and disconnect the spark plug wire, make sure that all moving parts have come to a complete stop and, where a key is fitted remove the key, make sure engine is completely cooled.
 - Whenever you leave the lawn mower.
 - Before refuelling.
21. Reduce the throttle setting during engine shut down and, if the engine is provided with a shut-off valve, turn the fuel valve off at the conclusion of mowing.

Maintenance and Storage

1. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
2. Never store the equipment with petrol in the tank inside a building where fuel vapours can reach an open flame or spark or where the temperature is high.
3. Before storage allow the engine to cool.
4. To reduce the fire hazard, keep the engine, silencer, battery compartment and petrol storage area free of grass, leaves, or excessive grease.
5. Check the grass catcher and deflector frequently for wear or deterioration.
6. Replace worn or damaged parts for safety. Genuine parts should always be used as parts of inferior quality can damage the equipment and compromise safety.
7. If the fuel tank has to be drained, this should be done outdoors. Always ensure engine is completely cooled before starting this task.
8. If the blade needs to be removed, wear strong gloves to prevent injury to hands and fingers. Check the blades balance after sharpening.
9. When transporting the machine make sure you close the fuel cut off. Be careful to ensure weight is evenly distributed. Wear strong gloves.
10. When tilting the machine never tilt towards the air filter as this may become damaged with fuel.
11. Never crank the engine when the spark plug is removed.
12. Frequently check the fuel lines and fittings for damage and cracks, replace if necessary
13. Never start the engine with the air filter cover removed.
14. Carefully clean the mower and grass bag after use to remove debris as this can damage and corrode.

Fertilisers and top dressings are particularly corrosive.

15. In time your chassis may peel because of the abrasive action of the debris making contact. This can be remedied by touching up the paintwork where necessary to prevent corrosion.

 **Warning: Do not touch a rotating blade.**

 **Warning: Refuel in a well ventilated area with the engine stopped.**

3. PARTS DESCRIPTION



Fig.C

- 1. Upper handle 2. Rope Guide 3. Locking lever 4. Grass catcher
- 5. Height adjusting lever 6. Oil cap 7. Deck 8. Spark Plug
- 9. Starter handle 10. Fuel cap 11. Cable clamp 12. Throttle choke lever
- 13. Self-drive control handle 14. Brake control handle 15. Key Ignition and Battery Charging point

Including A: Spark plug wrench

4. TECHNICAL DATA

Model	RM46SPCE
Engine type	Cobra DG450
Self-Propelled	Yes
Engine Displacement	135cm ³
Blade Width	460mm
Rated Speed	2800/min
Fuel Tank Capacity	1.2L
Grass catcher capacity	55L
Net Weight	40.4kg
Height adjustment:	17~75mm, 6 adjustment
Changer model	HYCH01380500G
Changer technical data	Input: AC 100-240V, 50-60Hz,0.32A Output voltage 13.8Vd.c. , 0.5A

	RM46SPCE
Guaranteed Sound pressure level at operator's position (According to EN 836 Annex H & EN ISO 4871)	86,0dB (A)(k=3 dB (A))
Measured sound power level	91,7dB (A) k= 1,81dB (A)
Guaranteed Sound Power level (According to 2000/14/EC)	96dB(A)
Vibration (According to EN 836 Annex G)	2.988m/s ² k=1,5 m/s ²

5. ASSEMBLY

5.1 FOLDING THE HANDLE

1. Fix the lower handlebars onto the mower body with bolts, washers with a suitable spanner. (Fig. 1A/Fig.1B)
2. Release the upper handlebars for folding.
3. Push the locking lever closed to lock the handlebars in the operating position. (Fig.1C/Fig.1D)
4. Adjust the tension by turning the lock nut with a suitable spanner. (Fig.1C)
5. Attach the cable-clamp to the position shown and then attach the cable. (Fig.1E)



Fig.1A



Fig.1B



Fig.1C



Fig.1.D

5.2 ASSEMBLE THE GRASS CATCHER

Drop the cloth bag through the metal bracket, open up the reinforced rim on the three sides by hand or using a screwdriver. Wrap and then clench the reinforced material around the metal support brackets on the three sides to secure the bag in position. (Fig.2A/2B/2C/2D/2E)



Fig.2A



Fig.2B



Fig.2C



Fig.2D



Fig.2E

1. To fit: raise the rear cover and hitch the grass catcher on the rear of the mower. (Fig. 2F, Fig.2G, Fig. 2H)
2. To remove: grasp and lift the rear cover, remove grass catcher.

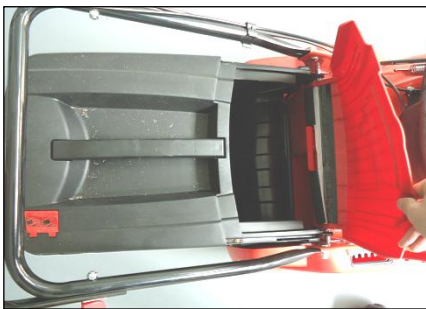


Fig. 2F



Fig. 2G



Fig.2H

5.3 STARTER HANDLE

Engage the Brake control handle then move the starter handle from the engine to the rope guide.



Fig.3A for the Cobra Engine

5.4 HEIGHT OF CUT

Apply outward pressure to disengage the lever from the rack. Move lever forward or back to adjust height. (Fig.4 and see clause 6.9)



Fig. 4

5.5 Rear Roller

Your mower features a rear roller, which helps cut right up to the edge of borders and creates a traditional striped lawn finish. It is recommended to alternate the direction of mowing periodically, to improve turf growth. Vary the height of cut depending on the lawn and weather conditions.



Fig.5A

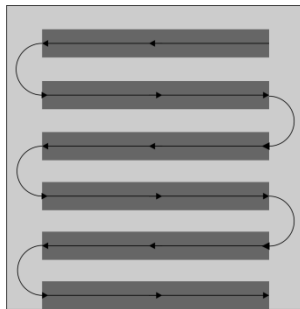
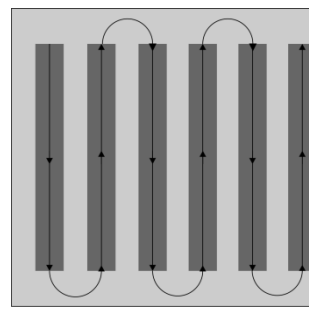


Fig.5B



Change the cutting pattern alternate weeks

6. OPERATING INSTRUCTIONS

6.1 BEFORE STARTING

Service the engine with Petrol and oil as instructed in the separate engine manual packed with your mower. Read instructions carefully.

⚠ WARNING! Petrol is highly flammable.

Store fuel in containers specifically designed for this purpose.

Refuel outdoors only, before starting the engine. Do not smoke while refueling or handling fuel.

Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot.

If petrol is spilled, do not attempt to start the engine, but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapors have dissipated.

Replace all fuel tanks and container caps securely.


Before tipping the lawn mower to maintain the blade or drain oil, remove fuel from tank.


⚠ WARNING: Never re-fuel tank indoors, with the engine running or until the engine has been allowed to cool for at least 15 minutes after running.


6.2 TO START THE ENGINE AND ENGAGE THE BLADE

To Start Manually

1. The unit is equipped with a rubber boot over the end of the spark plug, make certain the metal loop on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug.

2. When starting the engine and operating, turn throttle choke lever to  " " position. (Fig.6B)

3. When starting cool engine, turn throttle choke lever to  " " position. (Fig.6B)

When starting a warm engine and operating, turn throttle choke lever to “” position. (Fig.6C)

4. Standing behind the mower grasp the brake control handle and hold it against the upper handle as shown in (Fig.6D)

5. Grasp the starter handle and pull up rapidly. Return it slowly to the rope guide bolt after engine starts. Release the brake control handle to stop the engine and blade (Fig.6D)



Fig.6B

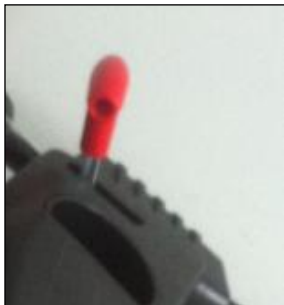


Fig.6C




Fig. 6D

6.2.2 Starting electrically

1. The unit is equipped with a rubber boot over the end of the spark plug, make certain the metal loop on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug.

2. When starting a cool engine, turn the throttle choke lever to “” position. (Fig.6B)

3. When starting warm engine and Operating, turn throttle choke lever to “” position. (Fig.6C)

4. Turn the ignition key fully to the right in the ignition lock. (Fig.6E/Fig.6F/Fig.6G)

5. As soon as the motor starts running, release the ignition key. (Fig.6F)
Release the brake control handle to stop the engine and blade.




Fig.6E




Fig. 6F



Fig. 6G

 Start the engine carefully according to the instructions, with your feet well away from the blade.

 Do not tilt the lawn mower when starting the engine. Start the mower on a level surface, free of high grass and obstacles.

! Keep hands and feet away from the rotating parts. Do not start the engine when standing in front of the discharge opening.

6.3 OPERATION PROCEDURES

During operation, tightly hold the brake handle with both hands.

Note: During operation, when the brake handle is released, the engine will stop and thus stop the lawnmower from operating.

6.4 TO STOP ENGINE

! **CAUTION:** The blade continues to rotate for a few seconds after the engine is shut off.

1. Release the brake control handle to stop the engine and blade.
2. Disconnect and ground the spark plug wire as instructed in the separate engine manual to prevent accidental starting while equipment is unattended.

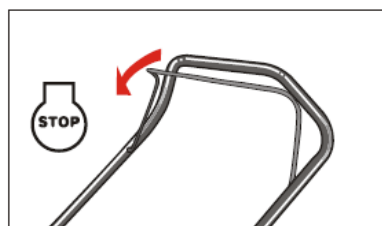


Fig.7

6.5 CONNECTION FOR AUTO DRIVE – SELF PROPELLED

After starting the engine, push the Self-drive control handle forward towards the upper handle, the lawnmower will move forward automatically at a speed of about 3.6 km/h, release the self-drive handle, the lawnmower will stop moving.

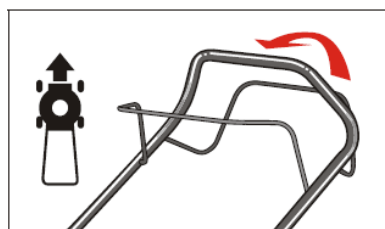


Fig.8

! **CAUTION:** your mower is designed to cut normal residential grass of a height no more than 250mm.

Do not attempt to mow through unusually tall dry or wet grass (e.g., pasture) or piles of dry leaves. Debris may build up on the mower deck or contact the engine exhaust presenting a potential fire hazard.

6.6 FOR THE BEST RESULTS WHEN MOWING

Clear lawn of debris: Be sure that the lawn is clear of stones, sticks, wire or other objects, which could be accidentally thrown out by the mower in any direction and cause serious injury to the operator and others as well as damage to property and surrounding objects.

Avoid cutting wet grass: For effective mowing do not cut wet grass, because it tends to stick to the underside of the deck preventing proper mowing of the grass clippings.

General Recommendations: The recommended cut for mowing is 1/3 the length of the grass, to ensure a healthy drought resistant lawn. When mowing long grass you may have to cut the lawn in two passes, lowering the blade another 1/3 of the length for the second cut and perhaps cutting in a different pattern than was used the first time. Overlapping the cut a little on each pass will also help to clean up any stray clippings left on the lawn. The mower should always be operated at full throttle to get the best cut and allow it to do the most effective job of mowing.

Clean underside of deck: Be certain to clean the underside of the cutting deck after each use to avoid a build-up of grass, which may affect the grass collection. The lawnmower is ideal for collecting leaves during the

autumn months. Make sure they are dry and are not laying too thick on the lawn. Do not wait for all the leaves to be off the trees before you mow.

⚠ WARNING: If the mower blade strikes a foreign object, then stop the engine. Remove the wire from the spark plug, thoroughly inspect the mower for any damage and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of serious damage. The unit should be promptly inspected and repaired.

6.7 GRASS CATCHER

There is a level indicator on the top of the grass catcher that shows whether the catcher is empty or full:

- The level indicator inflates if the catcher is not full during mowing. (Fig. 9A)
- If the catcher is full, the indicator collapses; once this happens stop mowing immediately and empty the catcher, make sure it is clean and ensure its meshwork is clear of grass clippings. (Fig. 9B)

⚠ IMPORTANT:

Keep the grass catcher indicator vents clear at all times, to ensure that it functions correctly.



Fig. 9A

Fig. 9B

6.8 DECK

The underside of the mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt or other matter. If this debris is allowed to accumulate, it will invite rust and corrosion, and may prevent proper mulching. The deck may be cleaned by tilting the mower and scraping clean with a suitable tool (make certain the spark plug wire is disconnected).

6.9 HEIGHT ADJUSTMENT INSTRUCTIONS

⚠ CAUTION: Do not at any time make any adjustment to the lawnmower without first stopping the engine and disconnecting the spark plug wire.

⚠ CAUTION: before changing the mowing height, stop the mower and disconnect the spark plug cable.

Your mower is equipped with a central height adjustment lever offering 6 height positions.

Fig.10A Position 1: 17mm; Fig.10B Position 6: 75mm.



Fig.10A

Fig.10B

1. Stop mower and disconnect the spark plug cable before changing the mower cutting height.
2. The central height adjustment lever offers you 6 different height positions.
3. To change the height of cut, pull the adjuster lever away from the engine out of the slots and then move either up or down to select the required height of cut. Push the lever back into the slot to secure.

7. MAINTENANCE INSTRUCTIONS

SPARK PLUG

Use only the original replacement spark plug. For best results, replace the spark plug every 100 hours of use.

8. LUBRICATION INSTRUCTIONS



CAUTION: DISCONNECT THE SPARK PLUG BEFORE SERVICING.

1. WHEELS-Lubricate the ball bearings in each wheel at least once a season with a light oil.
2. ENGINE-Follow engine manual for lubrication instructions.

9. CLEANING



CAUTION: Do not hose the engine. Water can damage the engine or contaminate the fuel system.

1. Wipe deck with a dry cloth.
2. Hose under the deck by tilting the mower, so that the spark plug is up.

9.1 ENGINE AIR FILTER CLEANER

CAUTION: Do not allow dirt or dust to clog the air filter foam element. The engine air cleaner element must be serviced (cleaned) after 25 hours of normal mowing. The foam element must be serviced more frequently if the mower is used in dry and dusty environments.

TO CLEAN THE AIR FILTER:

1. Lift the tabs on top of the filter cover.
2. Remove cover.
3. Wash filter element in soap and water. **DO NOT USE PETROL!**
4. Air dry the filter element.
5. Place a few drops of SAE30 oil on the foam filter and squeeze tightly to remove any excess oil.
6. Reinstall the filter.

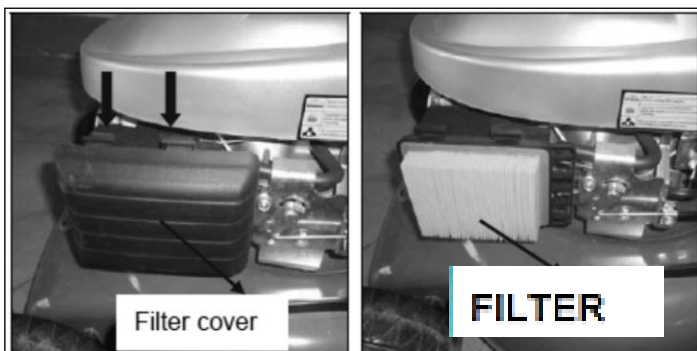


Fig.11C for Cobra engine

Fig.11D for Cobra engine



NOTE: Replace the filter if frayed, torn, damaged or unable to be cleaned.

9.2 CUTTING BLADE



CAUTION: Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blades. Tip the mower as specified in the separate engine manual. Remove the hex bolt and washer which holds the blade and blade adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

⚠ WARNING: Periodically inspect the blade adapter for cracks, especially if you strike a foreign object.

Replace when necessary.

For best results your blade should be sharp. The blade may be re-sharpened by removing it and either grinding or filing the cutting edge, keeping it as close to the original bevel as possible. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An improper blade balance will result in excessive vibration, causing eventual damage to the engine and mower. Be sure to carefully balance the blade after sharpening. The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

Before re-assembling the blade and the blade adapter to the mower, lubricate the engine crankshaft and the inner surface of the blade adapter with a light oil. Install the blade adapter on the crankshaft. Refer to figure 12. Place the blade with the part number facing away from the adapter. Align the washer over the blade and insert the hex bolt. Tighten the hex bolt to the torque listed below:

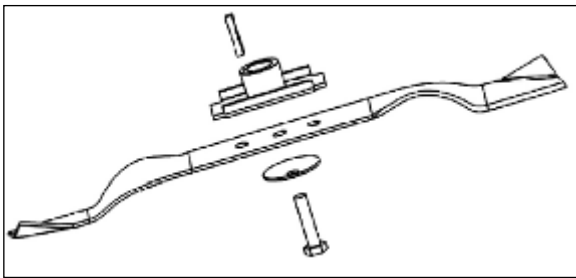


Fig.12

9.3 BLADE MOUNTING TORQUE

Center Bolt 40Nm-50Nm, to insure safe operation of your unit. All nuts and bolts must be checked periodically for correct tightness.

After prolonged use, especially in sandy soil conditions, the blade will become worn and lose some of the original shape. Cutting efficiently will be reduced and the blade should be replaced. Replace with an approved factory replacement blade only. Possible damage resulting from blade unbalance condition is not the responsibility of the manufacturer.

When you change the blade, you must use the original type marked on the blade (Cobra Part number 263001465. Please contact your local dealer to order a replacement)

9.4 ENGINE

Refer to the separate engine manual for engine maintenance instructions.

Maintain engine oil as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service the air filter cleaner as per the separate engine manual under normal conditions.

Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service the air cleaner, refer to the separate engine manual packed with your unit.

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season. Check the engine manual for correct plug type and gap specifications.

Clean the engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation, which is essential for engine performance and life. Be certain to remove all grass, dirt and combustible debris from the exhaust area.

10. CHARGING THE STARTER BATTERY

The starter battery is maintenance-free and is normally charged by the lawnmower. In certain cases, however, the battery will need to be charged by the user:

1. before the initial start-up of the lawnmower.
2. If discharged, before the winter season, or if left unused for long periods (> 6 months).

Charging procedure:

1. Insert the charger cable fully to the charging hole. (Fig.13)
2. Connect the charger to the mains supply. The mains voltage must match the operating voltage of the charger.
3. The required charging time is about 8-10 hours each time.

⚠ WARNING!

- Use only the original battery charger supplied and do not use with other devices.
- Charge the starter battery only in dry, well-ventilated rooms.
- Do not start up the lawnmower while the battery is charging.
- The longest charging time interval is 1 month.



Fig. 13

⚠ WARNING: Never touch a rotating cutting blade.

11. STORAGE INSTRUCTIONS (OFF SEASON)

The following steps should be taken to prepare the lawn mower for storage.

1. Empty the tank after the last mowing of the season.
 - a) Empty the petrol tank with a suction pump.

⚠ CAUTION! Do not drain the petrol in closed rooms, in close proximity of open fire, etc. Do not smoke!

Petrol fumes can cause an explosion or fire.

- b) Start the engine and let it run until it has used up all remaining petrol and stalls.
 - c) Remove the spark plug. Use an oilcan to fill approx. 20 ml of oil into the combustion chamber. Operate the starter to evenly distribute the oil in the combustion chamber. Replace the spark plug.
2. Clean and grease the lawnmower carefully as described above under "Lubrication".
 3. Slightly grease the cutter to avoid corrosion.
 4. Store the lawnmower in a dry, clean and frost-protected place.
 5. Store the starter battery where it will be protected from frost.
 6. Recharge the starter battery from time to time.
 7. Store the charger in a dry and locked place that is generally free of dust. Ensure that it is protected from unauthorised use (e.g. by children).
 8. for optimum battery service life, store at +10°C to +20°C and at a charge level of approx.30%.

 **CAUTION!** The engine must have completely cooled down before storing the lawnmower.

 **NOTE:**

- When storing any type of power equipment in an unventilated or material storage shed, care should be taken to rust-proof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts.

- Be careful not to bend or kink cables.

- If the starter rope becomes disconnected from the rope guide on the handle, disconnect and ground the spark plug wire. Depress the blade control handle and pull the starter rope out from the engine slowly. Slip the starter rope into the rope guide bolt on the handle.

Transport

Turn the engine off. Ensure not to bend or damage the cutter blade when pushing the lawnmower over obstacles.

12. TROUBLES SHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Engine does not start.	Throttle choke not in the correct position for the prevailing conditions.	Move throttle choke to the correct position
	Fuel tank is empty.	Fill the tank with fuel: refer to the ENGINE MANUAL.
	Air filter element is dirty.	Clean air filter element: refer to the ENGINE MANUAL
	Spark plug loose.	Tighten spark plug to 25-30Nm.
	Spark plug wire loose or disconnected from the plug.	Install spark plug wire on spark plug.
	Spark plug gap is incorrect.	Set gap between electrodes at 0.7 to 0.8mm
	Spark plug is defective	Install new, correctly gapped plug: refer to the ENGINE OWNERS MANUAL
	Carburetor is flooded with fuel	Remove air filter element and pull starter rope continuously until the carburetor clears itself and then install the air filter element.
	Faulty ignition module	Contact the service agent.
Engine doesn't start with the key	Charge Battery	
Engine difficult to start or loses power.	Dirt, water, or stale fuel tank.	Drain fuel and clean tank. Fill tank with clean, fresh fuel
	Vent hole in fuel tank cap is plugged.	Clean or replace fuel tank cap.
	Air filter element is dirty.	Clean air filter element.
Engine operates erratically.	Spark plug is defective.	Install new, correctly gapped plug: refer to the ENGINE OWNERS MANUAL
	Spark plug gap is incorrect.	Set gap between electrodes at 0.7 to 0.8mm
	Air filter element is dirty.	Clean air filter element: refer to the ENGINE OWNERS MANUAL
Engine idles poorly.	Air filter element is dirty.	Clean air filter element: refer to the ENGINE OWNERS MANUAL
	Air slots in engine shroud are blocked.	Remove debris from slots.
	Cooling fins and air passages under engine blower housing are blocked.	Remove debris from cooling fins and air passages.
Engine skips at high speed.	Gap between electrodes of spark plug are too close.	Set gap between electrodes at 0.7 to 0.8mm
Engine overheats	Cooling air flow is restricted.	Remove any debris from slots in shroud, blower housing, and air passages
	Incorrect spark plug.	Install NGK BPR6ES spark plug
Mower vibrates abnormally	Cutting assembly is loose.	Tighten the blade
	Cutting assembly is unbalanced	Balance or replace the blade

13. 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, batteries, 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

14. ENVIRONMENT

Should your machine need replacement after extended use, do not put it in the domestic waste but dispose of it in an environmentally safe way.




Disposal

Do not dispose of old equipment, batteries or accumulators as household waste!

Machine, packaging, and accessories were made with recyclable materials, and should be disposed of accordingly.



15. 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:	RM46SPCE (1666QDR)
Displacement	135cm ³
Max, Cutting width	460 mm
Measured sound power level:	91.7dB(A)
Guaranteed sound power level:	96dB(A) Notified Body for EC Directive 2000/14/EC:0036 TÜV SÜD Industrie Service GmbH Westendstrasse 199 • 80686 München • Deutschland
Applicable EC Directives	2006/42/EC 2004/108/EC 2000/14/EC 97/68/EC
Applicable Harmonized Standards	EN 836 EN ISO 14982
Authorized Signature/Date	 Peter J. Chaloner 02-12-2013
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