DAYE

Engines
Original Instructions

Model: DG600

2015

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1. INTRODUCTION

Thank you for purchasing our engine. We want to help you to get the best results from your new engine and operate it safely. This manual contains information on how to do that; please read it carefully before operating the engine.

This manual should be considered as a permanent part of the engine and should remain with the engine if resold.

Review the instructions provided with the equipment powered by this engine for any additional information regarding engine startup, shutdown, operation, adjustments or any special maintenance instructions.

2. SAFETY MESSAGES

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the engine. Please read these messages carefully.

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol  and one of three words, **DANGER, WARNING, or CAUTION.**

These signal words mean:

 **DANGER:** You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.

 **WARNING:** You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

 **CAUTION:** You CAN be HURT if you don't follow instructions.

Each message tells you what the hazard is, what can happen, and what you can do to avoid or reduce injury.

3. SAFETY INFORMATION

● Understand the operation of all controls and learn how to stop the engine quickly in case of emergency. Make sure the operator receives adequate instruction before operating the equipment.

●Your engine's exhaust contains poisonous carbon monoxide. Do not run the engine without adequate ventilation, and never run the engine indoors.

●The engine and exhaust become very hot during operation. Keep the engine at least 3 feet (1 meter) away from buildings and other equipment during operation. Keep flammable materials away, and do not place anything on the engine while it is running.

4. COMPONENT&CONTROL LOCATION

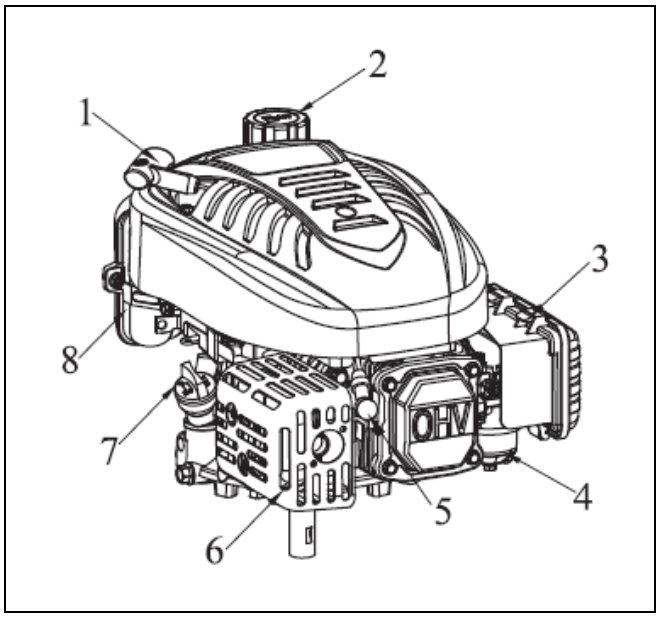

Fig. 1

1. Starter grip	2. Fuel cap	3.Air filter
4. Carburetor	5.Spark plug	6. Muffler
7. Oil filter cap/dipstick	8.Fuel tank	

5. PRE-OPERATION CHECKS

For your safety, and to maximize the service life of your equipment, it is very important to take a few moments to check the engine condition before operating. Be sure to take care of any problem you find, or have your servicing dealer to correct it before you operate the engine.

WARNING: Improper maintenance to this engine, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously hurt or killed. Always perform a preparation inspection before each operation, and correct any problem.

Always check the following items before you start the engine:

1. Fuel level
2. Oil level
3. Air cleaner
4. General inspection: Check for fluid leaks and loose or damaged parts.
5. Check the equipment powered by this engine.

Review the instructions provided with the equipment powered by this engine for any precautions and procedures that should be followed before engine startup.

6. OPERATIONS

6.1 SAFE OPERATING PRECAUTIONS

Before operating the engine for the first time, please review the SAFETY INFORMATION section on page 3 and the PRE-OPERATION CHECKS above.

WARNING: Carbon monoxide gas is toxic. Breathing it can cause unconsciousness and even kill you. Avoid any areas or actions that expose you to carbon monoxide.
Review the instructions provided with the equipment powered by this engine for any safety precautions that should be observed with engine startup, shutdown, or operation.

6.2 STARTING THE ENGINE

a) Turn the fuel valve switch to the “ON” position
b) Standing behind the unit, grasp the brake control handle and hold it against the upper handle.(Fig 2A)
c) Move the throttle control to the choke position. (Fig 2B)
Note：Choke is usually unnecessary when restarting a warm engine.

d) Pull the starter grip slowly until resistance is felt and then pull rapidly to avoid kickback. e)Move the throttle to the choke position.
Note：This procedure is usually unnecessary for restarting a warm engine.

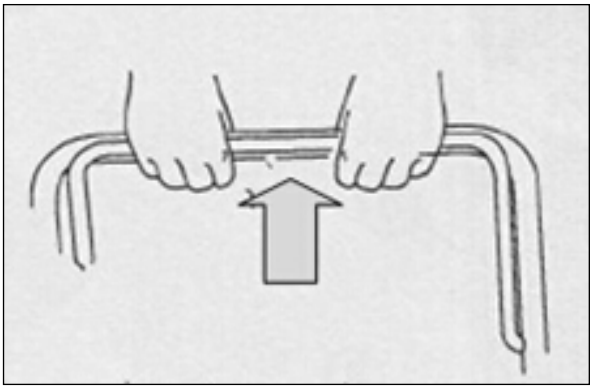
Fig 2A

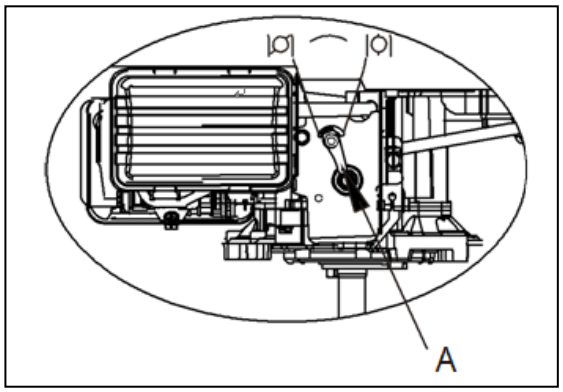

Fig. 2B A. throttle control

WARNING: Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

Fig 3
1 starter grip

6.3 STOPPING THE ENGINE

1. Release the brake control handle (located on equipment) to stop the engine. (See Fig 4)

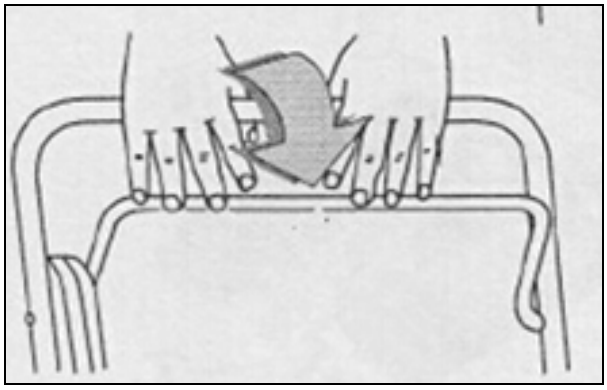

Fig. 4

2. Turn the fuel valve to the “OFF” position

7. SPECIFICATIONS

Type	DG600
Dry weight(kg)	14.5
Engine type	4-stroke, overhead valve, single cylinder
Displacement[Bore x Stroke]	173cc 70*45mm
Max. torque	10N.m at 2,800rpm
Cooling system	Forced air
Lubrication systems	Forced splash
Ignition system	TCI
PTO shaft rotation	Counter clockwise

8. TUNEUP SPECIFICATIONS

ITEM	SPECIFICATION	MAINTENANCE
Spark plug gap	0.028-0.031 in (0.7-0.8 mm)	Refer to page 12.
Valve clearance (cold)	IN:0.06±0.02mm EX:0.08±0.02mm	See your authorized dealer
Other specifications	No other adjustments needed	

9. SERVICING YOUR ENGINE

9.1 THE IMPORTANCE OF MAINTENANCE

Good maintenance is essential for safe, economical and trouble-free operation. It will also help reduce pollution.

WARNING: Improper maintenance, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously hurt or killed. Always follow the inspection and maintenance

recommendations and schedules in this owner's manual.

To help you properly care for your engine, the following pages include a maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Other service tasks that are more difficult, or require special tools, are best handled by professionals and are normally performed by our technician or other qualified mechanics.

If you operate your engine under severe conditions, such as sustained high-load or high-temperature operation, or use in unusual wet or dusty conditions, consult your servicing dealer for recommendations applicable to your needs and use.

9.2 MAINTENANCE SAFETY

Some of the most important safety precautions follow. However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

WARNING: Failure to properly follow the maintenance instructions and precautions can cause you to be seriously hurt or killed. Always follow the procedures and precautions in this owner's manual.

9.3 SAFETY PRECAUTIONS

Make sure the engine is off before you begin any maintenance or repairs. This will eliminate several potential hazards:

Carbon monoxide poisoning from engine exhaust.

Be sure there is adequate ventilation whenever you operate the engine.

Burns from hot parts.

Let the engine and exhaust system cool before touching.

Injury from moving parts.

Do not run the engine unless instructed to do so.

Read the instructions before you begin, and make sure you have the tools and skills required.

To reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a nonflammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks and flames away from all fuel related parts.

Remember that an authorized servicing dealer of our company knows your engine best and is fully equipped to maintain and repair it.

To ensure the best quality and reliability and use only our new genuine parts or their equivalents for repair and replacement.

9.4 MAINTENANCE SHCEDULE

Service more frequently when used in dusty areas.

Change engine oil every 25 hours when used under heavy load or in high ambient temperatures

These items should be serviced by an authorized servicing dealer of our company, unless you have the proper tools and are mechanically proficient.

For commercial use, long hours of operation to determine proper maintenance intervals.

Regular service period Item perform at every in dictated month or operating hour interval. Whichever comes first		Before each use	First month or 5 hrs	Every 3 months or 25 hrs	Every 6 months or 50 hrs	Every year or 100 hrs	Every two years or 200hrs	Note
Engine oil	Check	√						
	Replace	If necessary	√		√			
Air cleaner	Check							
	Clean				√			
	Replace						√	
Spark plug	Check-adjust							
	Replace					If necessary	√	
Flywheel brake pad	Check							
Spark arrester	Clean				If necessary			
Fuel tank and filter	Clean					√		Shop manual
Fuel tube	Check	Every 2 years （replace if necessary）						Shop manual
Valve clearance	Check-adjust	Not requires unless engine performance problems are noted						Shop manual
Combustion Chamber	Clean	After every 200 hours						

9.5 REFUELLING

Use unleaded gasoline with a pump octane rating of 86 or higher. This engine is certified to operate on unleaded gasoline. Unleaded gasoline produces fewer engine and spark plug deposits and extends exhaust system life.

WARNING: Gasoline is highly flammable and explosive, and you can be burned or seriously injured when refueling.

Stop engine and keep heat, sparks, and flame away.

Refuel only outdoors.
Wipe up spills immediately.

CAUTION: Fuel can damage paint and some types of plastic. Be careful not to spill fuel when filling your fuel tank. Damage caused by spilled fuel is not covered under the Warranty. Never use stale or contaminated gasoline or oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

9.5.1 ADDING FUEL

1. Remove the fuel cap (2).
2. Add fuel to the bottom of the fuel level limit in the neck of the fuel tank (8). (See Fig. 5)
3. Do not overfill. Wipe up spilled fuel before starting the engine.
4. Install and tighten the fuel cap.
5. Fuel tank capacity: 2L (0.528US gal, 0.439UK gal)

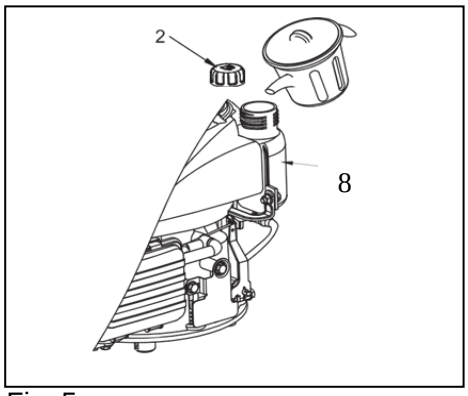

Fig. 5

9.6 ENGINE OIL

9.6.1 RECOMMENDED OIL

Use 4-stroke motor oil that meets or exceeds the requirements for API service classification SH, SJ, or equivalent. Always check the API service label on the oil container to be sure it includes the letters SH, SJ, or equivalent. (See Fig. 6)

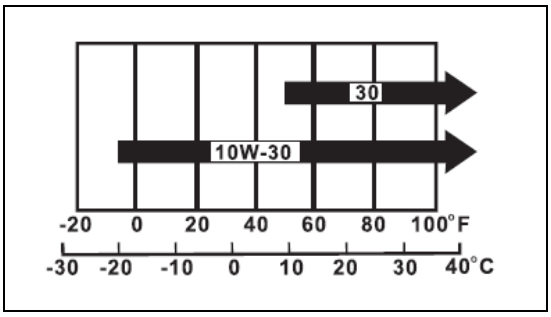

Fig. 6

SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

9.6.2 OIL LEVER CHECK

1. Check the oil level when engine is stopped.
2. Remove the oil filler cap/dipstick (7) and wipe it clean.
3. Insert the oil filler cap/dipstick (7) into the oil filler neck as shown, but do not screw it in, then remove it to check the oil level.

4. If the oil level is near or below the lower limit mark on the dipstick, remove the oil filler cap/dipstick(7), and fill with the recommended oil to the upper limit mark (bottom edge of .the oil fill hole). Do not overfill.

5. Reinstall the oil filler cap/dipstick (7). (See Fig. 7)

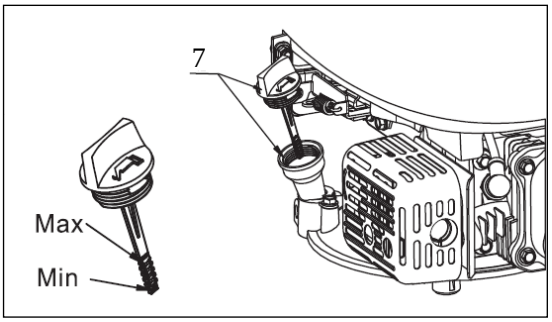

Fig. 7
7 Oil filter cap/dipstick
Max: upper limit Min: lower limit

CAUTION: This engine is delivered without oil, be sure to put oil in the engine before starting. Use a clean, detergent and high quality oil SAE30 and API.SG, SH or SJ classification.

9.6.3 OIL CHANGE

Drain the engine oil when the engine is warm, warm oil drain is quickly and complete. (See Fig.8)

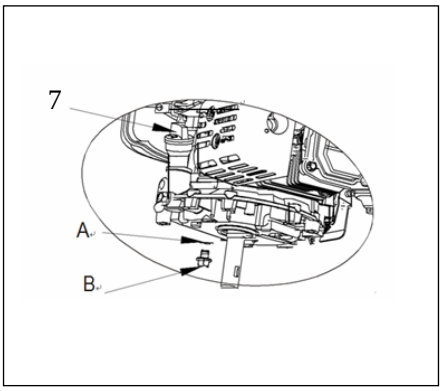

Fig. 8

7. Oil filter cap/dipstick

A. Sealing washer B .Drain bolt

1. Place a suitable container next to the engine to catch the used oil.

2. Drain the oil into the container by slightly tipping the engine toward the oil filler cap/dipstick after remove the drain bolt and sealing washer.

NOTE: Please dispose of used oil in a manner that is compatible with the environment. We suggest you take used oil in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash or pour it on the ground or down a drain.

3. Remove the dipstick

4. Install and tighten the drain bolt and sealing washer after oil is totally drained out.

5 .Pour the recommended oil slowly into the oil fill. Do not overfill. After adding oil, wait for one minute and then check the oil lever by using dipstick. Oil lever should be between lower limit and upper limit（See Fig. 9).

6. Install and tighten dipstick

Engine Oil Capacity: 0.60L (0.158US gal, 0.132UK gal)

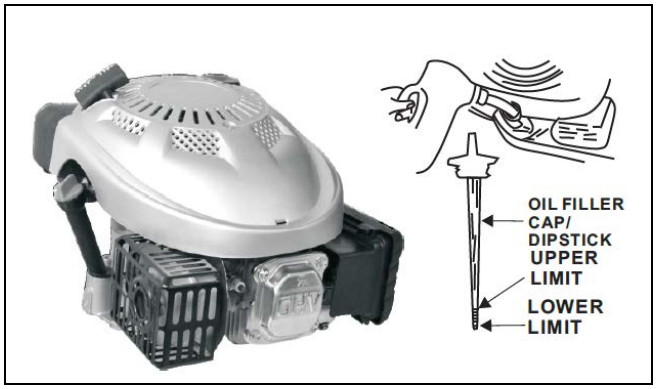

Fig. 9

CAUTION: Running the engine with a low oil level can cause engine damage. Reinstall the oil filler cap/dipstick securely.

9.7 AIR CLEANER

A dirty air cleaner will restrict air flow to the carburetor and cause poor engine performance. Inspect the air cleaner each time the engine is operated. You will need to clean the air cleaner more frequently if you operate the engine in very dusty areas.

WARNING: Operating the engine without an air cleaner, or with a damaged air cleaner, will allow dirt to enter the engine, causing rapid engine wear. This type of damage is not covered under the Warranty.

9.7.1 INSPECTION (See Fig. 10)

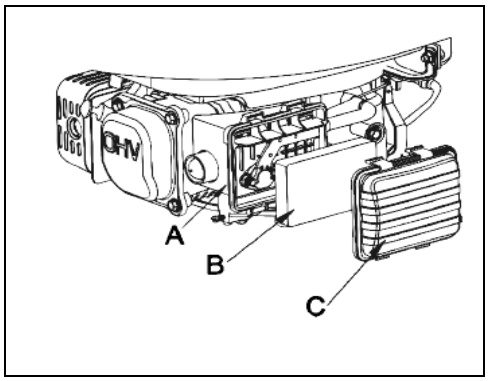

Fig. 10

A: Air cleaner case

B: Foam element

C: Air cleaner cover

1. Remove the air cleaner cover. Be careful to prevent dirt and debris from falling into the air cleaner case.
2. Remove the foam element from the air cleaner case.
3. Inspect the air cleaner elements. Replace any damaged elements. Clean or replace dirty elements.

9.7.2 CLEANING

The air cleaner system uses a foam element that can be washed and reused.

1. Remove the air cleaner cover(C).
2. Remove the foam element (B).

3. Wash the foam element in liquid detergent and water. Squeeze dry the foam element in a clean cloth.

4. Saturate the foam element with clean engine oil. To remove the excess engine oil, squeeze the foam element in a clean cloth.

5. Install the foam element into the air cleaner case

6. Close the air cleaner cover and tighten the two wing bolts securely.

9.8 SPARK PLUG

Recommended Spark Plug: F7RTC(TORCH).

The recommended spark plug is the correct heat range for normal engine operating temperatures.

WARNING: Incorrect spark plugs can cause engine damage.

For good performance, the spark plug must be properly gapped and free of deposits.

1. Disconnect the cap from the spark plug, and remove any dirt from the spark plug area.

2. Use the proper size spark plug wrench to remove the spark plug.

3. Inspect the spark plug. Replace it if damaged, badly fouled, if the sealing washer is in poor condition, or if the electrode is worn.

4. Measure the electrode gap with a suitable gauge. The correct gap is 0.028 - 0.031 in (0.70-0.80 mm). If adjustment is needed, correct the gap by carefully bending the side electrode. (See Fig. 11)

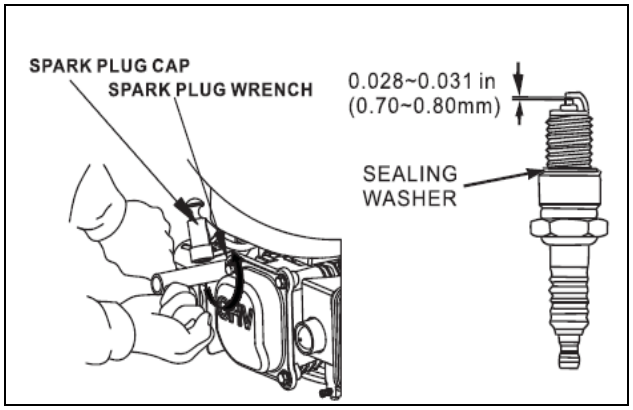

Fig. 11

5. Install the spark plug carefully, by hand, to avoid cross-threading.

6. After the spark plug is seated, tighten with the proper size spark plug wrench to compress the washer.

7. When installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer.

8. When reinstalling the original spark plug, tighten 1/8-1/4 turn after the spark plug seats to compress the washer.

WARNING: A loose spark plug can become very hot and can damage the engine. Over tightening the spark plug can damage the threads in the cylinder head.

9. Attach the spark plug cap to the spark plug.

9.9 FLYWHEEL BRAKE INSPECTION

1. Check to see if the inspection screw is contacting the brake bracket.

2. If the inspection screw is contacting the brake bracket, take the engine to an authorized engine servicing dealer for flywheel brake pad inspection.

3. Release the tarter control handle (located on equipment) and verify that there is a strong resistance when

pulling on the recoil starter. Also verify that the governor arm is moved to the idle (slow), position and there is free play in the cable. The cable should 10~15 mm from the centerline as shown when the cable is new.

4. Move the starter control handle (located on equipment) to release the flywheel brake, and verify that there is clearance between the governor arm and the throttle return rod when the throttle return rod when the throttles in the fast (or high) position. Also verify that there is at least 2 mm clearance between the stopper and the brake cable bracket. (See Fig. 12)

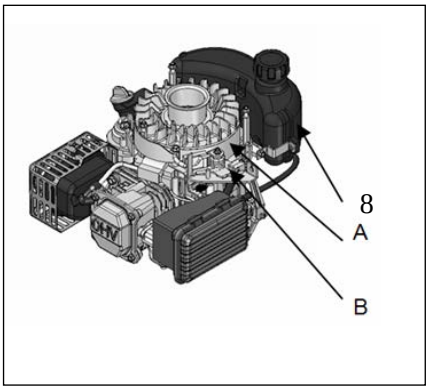

Fig. 12

8. Fuel tank A. Fly wheel B. Brake system

10. ENGINE ADJUSTMENT

WARNING: Do not change in any way the rated speed of the engine (carburetor side or regulator side).

WARNING: Your engine was adjusted in the factory and the non-respect of the homologation speed engine could be dangerous for your safety and others safety. If the rated speed is changed in any way, the factory warranty will be cancelled.

11. HELPFUL TIPS & SUGGESTIONS STORING YOUR ENGINE

11.1 STORING YOUR ENGINE

11.1.1 STORAGE PREPARATION

Proper storage preparation is essential for keeping your engine trouble free and looking good. The following steps will help to keep rust and corrosion from impairing your engine's function and appearance, and will make the engine easier to start when you use it again.

11.1.2 CLEANING

If the engine has been running, allow it to cool for at least half an hour before cleaning. Clean all exterior surfaces, touch up any damaged paint, and coat other areas that may rust with a light film of oil.

CAUTION: Using a garden hose or pressure washing equipment can force water into the air cleaner or muffler opening. Water in the air cleaner will soak the air filter, and water that passes through the air filter or muffler can enter the cylinder, causing damage.

11.1.3 FUEL

Gasoline will oxidize and deteriorate in storage. Deteriorated gasoline will cause hard starting, and it leaves gum deposits that clog the fuel system. If the gasoline in your engine deteriorates during storage, you may need to have the carburetor, and other fuel system components, serviced or replaced.

The length of time that gasoline can be left in your fuel tank and carburetor without causing functional problems will vary with such factors as gasoline blend, your storage temperatures, and whether the fuel tank is partially

or completely filled.

The air in a partially filled fuel tank promotes fuel deterioration. Very warm storage temperatures accelerate fuel deterioration. Fuel problems may occur within a few months, or even less if the gasoline was not fresh when you filled the fuel tank.

Fuel system damage or engine performance problems resulting from neglected storage preparation are not covered under Warranty.

11.1.4 ADDING A GASOLINE STABILIZER TO EXTEND FUEL STORAGE LIFE

When adding a gasoline stabilizer, fill the fuel tank with fresh gasoline. If only partially filled, air in the tank will promote fuel deterioration during storage. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline.

1. Add gasoline stabilizer by following the manufacturer's instructions.
2. After adding a gasoline stabilizer, run the engine outdoors for 10 minutes to be sure that treated gasoline has replaced the untreated gasoline in the carburetor.

11.1.5 DRAINING THE FUEL TANK AND CARBURETOR

WARNING: Gasoline is highly flammable and explosive, and you can be burned or seriously injured when handling fuel. Stop engine and keep heat, sparks, and flame away. Refuel only outdoors. Wipe up spills immediately.

1. Place an approved gasoline container below the carburetor, and use a funnel to avoid spilling fuel.
2. Remove the drain bolt, and then move the fuel valve lever to the ON position.
3. After all the fuel has drained into the container; reinstall the drain bolt and washer. Tighten the drain bolt securely. (See Fig. 13)

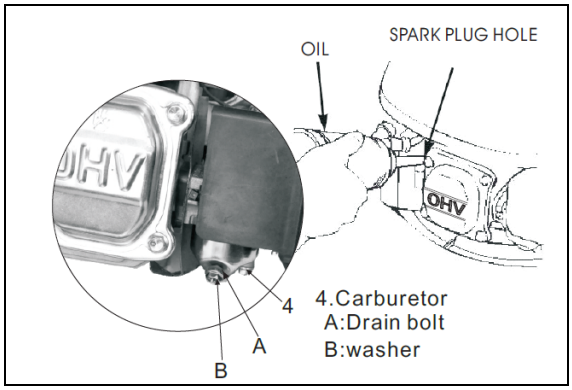

Fig. 13

A. drain bolt B. washer 4.carburetor

11.1.6 ENGINE OIL

1. Change the engine oil
2. Remove the spark plug
3. Pour a tablespoon (5 - 10 cc) of clean engine oil into the cylinder.
4. Pull the recoil starter several times to distribute the oil.
5. Reinstall the spark plug.

11.1.7 CLEAN FUEL STRAINER

WARNING: Gasoline is extremely flammable and is explosive under certain conditions Do not smoke or allow flames or sparks in the area.

1. Remove the fuel strainer from the fuel tank and fuel line.
2. Clean the fuel strainer (remove dirt which has accumulated on the mesh, and check that the mesh is not broken anywhere).

3. Reinstall the fuel strainer (A) and fuel line. (See Fig. 14)

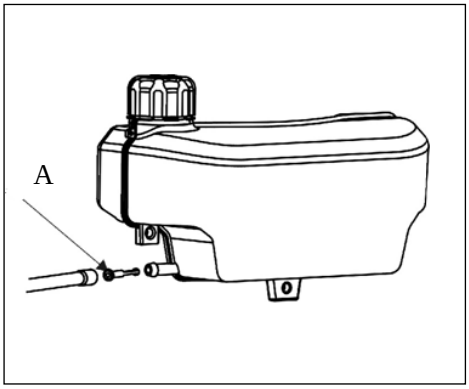

Fig. 14

11.1.8 STORAGE PRECAUTIONS

If your engine will be stored with gasoline in the fuel tank and carburetor, it is important to reduce the hazard of gasoline vapor ignition. Select a well-ventilated storage area away from any appliance that operates with a flame, such as a furnace, water heater, or clothes dryer. Also avoid any area with a spark producing electric motor, or where power tools are operated.

If possible, avoid storage areas with high humidity, because that promotes rust and corrosion.

If there is gasoline in the fuel tank, leave the fuel valve in OFF position.

WARNING: Keep the engine in horizontal level. Tilting can cause fuel or oil leakage.

With the engine and exhaust system cool, cover the engine to keep out dust. A hot engine and exhaust system can ignite or melt some materials. Do not use sheet plastic as a dust cover. A nonporous cover will trap moisture around the engine, promoting rust and corrosion.

11.2 REMOVAL FROM STORAGE

Check your engine as described in the PRE OPERATION

Check section of this manual.

If the fuel was drained during storage preparation, fill the tank with fresh gasoline. If you keep a container of gasoline for refueling, be sure it contains only fresh gasoline. Gasoline oxidizes and deteriorates over time, causing hard starting.

If the cylinder was coated with oil during storage preparation, the engine will smoke briefly at startup. This is normal.

11.3 TRANSPORTING

Keep the engine level when transporting to reduce the possibility of fuel leakage. Turn the fuel valve to the OFF position.

12. TAKING CARE OF UNEXPECTED PROBLEMS

ENGINE WILL NOT START	Possible Cause	Correction
1. Check fuel.	Out of fuel.	Refuel
	Bad fuel; engine stored without eating or draining gasoline, of refueled with bad gasoline.	Drain the fuel tank and Carburetor.Refuel With fresh gasoline.
2. Remove and inspect Spark plug.	Spark plug faulty, fouled, or Improperly gapped. Spark plug wet with fuel (flooded engine).	Replace the spark plug Dry and reinstall spark plug.
3.Check choke	Choke is opened	Shut off choke well
4. Take engine to an authorized our Servicing dealer, or refer to shop manual	Fuel filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Replace or repair faulty components as necessary.
ENGINE LACKS POWER	possible Cause	Correction
1 check air cleaner	Air cleaner elements clogged	Clean or replace air cleaner elements
2 check fuel	Bad fuel, engine stored without treating or draining gasoline, of refueled with bad gasoline	Drain the fuel tank and carburetor. refuel with fresh gasoline
3 take engine to an authorized our servicing dealer, or refer to shop manual	Filter clogged, carburetor malfunction,iginition,malfunction,valaves stuck,etc	Replace or repair faulty components as necessary

13. TECHNICAL & CONSUMER INFORMATION TECHNICAL INFORMATION

13.1 SERIAL NUMBER LOCATION (See Fig. 15)

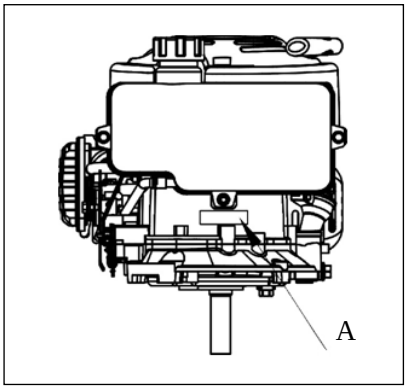

Fig. 15 A: Serial number location

Record the engine serial number in the space below. You will need this information when ordering parts and when making technical or warranty inquiries.

Engine serial number:

13.2 CARBURETOR MODIFICATIONS FOR HIGH ALTITUDE OPERATION

1. At high altitude, the standard carburetor air-fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase.
2. A very rich mixture will also foul the spark plug and cause hard starting. Operation at an altitude that differs from that, at which this engine was certified, for extended periods of time, may increase emissions.
3. High altitude performance can be improved by specific modifications to the carburetor. If you always operate your engine at altitudes above 5,000 feet (1,500 meters), have authorized servicing dealer perform this carburetor modification. This engine, when operated at high altitudes with the carburetor modifications for high altitude use, will meet each emission standard throughout its useful life.
4. Even with carburetor modification, engine horsepower will decrease about 3.5% for each 1,000 feet (300 meters) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

 **WARNING:** When the carburetor has been modified for high altitude operation, the air-fuel mixture will be too lean for low altitude use. Operation at altitudes below 5,000 feet (1,500 meters) with a modified carburetor may cause the engine to overheat and result in serious engine damage. For use at low altitudes, have an authorized servicing dealer return the carburetor to original factory specifications.

COBRA

MODELS: M51SPC (DYM1560AQ)

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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WARNING：

For your own safety please read this manual before attempting to operate your new unit. 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 with running machine.

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 instruction 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 paintwork where necessary to prevent corrosion.

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

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

3. PARTS DESCRIPTION

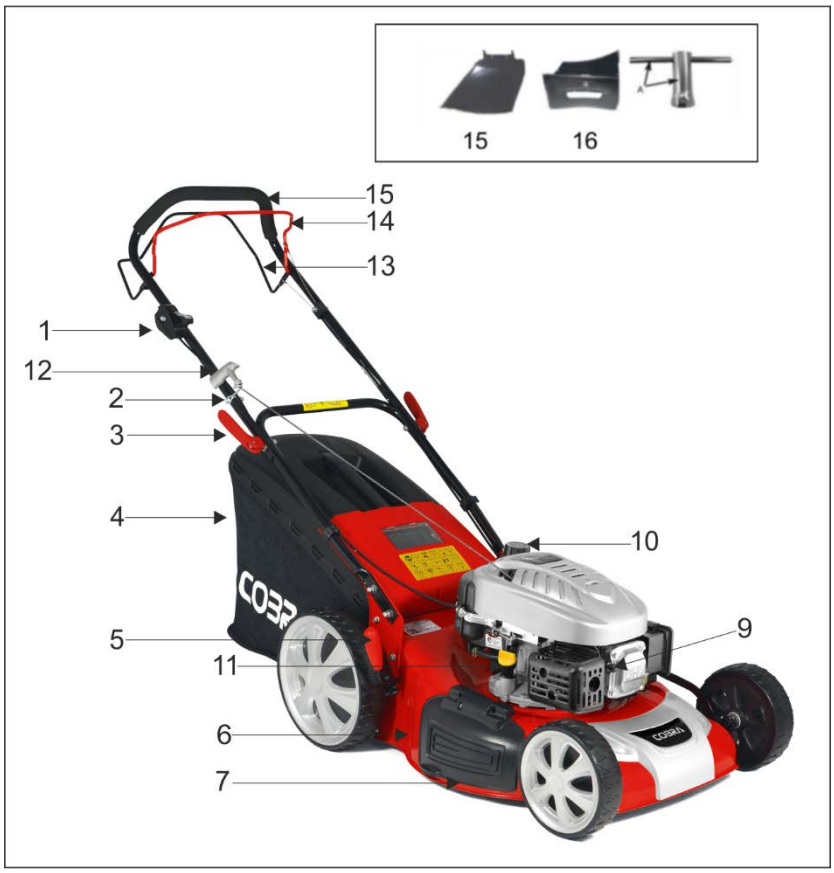

Fig. 1A

1. Throttle choke Lever
2. Rope guide
3. Locking Lever
4. Grass catcher
5. Height adjusting lever
6. Deck
7. Sideward flap
8. Front cover
9. Spark Plug
10. Fuel cap
11. Oil Cap
12. Starter handle
13. Self-drive control handle
14. Brake control handle
15. Upper handle
16. Side discharge chute
17. Mulching wedge

Including A: Spark plug wrench

4. TECHNICAL DATA

Model	M51SPC (DYM1660AQ)
Engine type	DG600
Self Propelled	Yes
Engine Displacement	173 cm^3
Blade Width	510 mm
Speed at max. Power	2800/min
Fuel Tank Capacity	2.0L
Grass catcher capacity	60 L
Net Weight	37.3 kg
Height adjustment :	25-75mm, 10 adjustment

	M51SPC
Guaranteed Sound pressure level at the operator's position (According to EN 836 Annex H& EN ISO 4871)	84.3dB(A)(K=3dB(A)

Measured sound power level Guaranteed Sound Power level (According to 2000/14/EC)	93.9 dB(A) K=2.01dB(A) 98 dB(A)
Vibration (According to EN 836 Annex G)	4.489 m/s² K=1.5 m/s²

5. ASSEMBLY

5.1 FOLDING HANDLE

1. Fix the lower handlebars into the unit body with a suitable spanner. (Fig. 2A)
2. Lift the two locking levers to release the upper handlebars for folding. (Fig. 2B)
3. Push the locking lever closed to lock the handlebars in the operating position. (Fig. 2B)
4. Adjust the tension by turning the lock nut with a suitable spanner. (Fig. 2C)

Fig. 2A

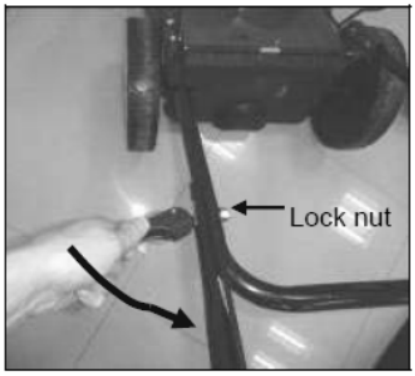

Fig. 2B

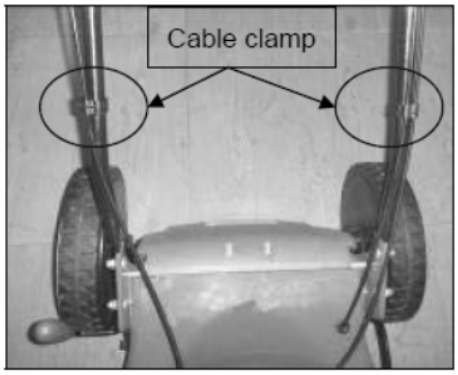

Fig. 2C

5.2 MOUNTING AND DISMOUNTING THE GRASS CATCHER

1. To fit: Raise the rear cover and hitch the grass catcher on rear of the mower.
2. To remove: grasp and lift the rear cover, to remove the grass catcher.

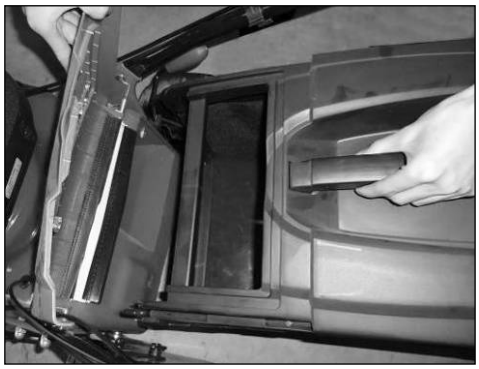

Fig. 3A

Fig. 3B

Fig. 3C

5.3 STARTER HANDLE

Engage the Brake Control Handle and then move the starter handle from the engine to the rope guide.

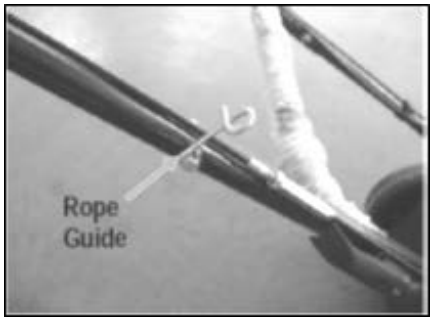

Fig. 4A

Fig. 4B

5.4 HEIGHT OF CUT

Apply outward pressure to disengage the lever from the rack. Move the lever forward or back to adjust the height of cut. (Fig. 5 and see clause 7.9)

Fig. 5

6. “3 IN 1”

The lawn mower has 3 in 1 features:

1. Rear grass collection.
2. Grass mulching.
3. Side-discharge.

What is mulching?

When mulching, the grass is cut in one working stage, then finely chopped and returned to the grass strip as natural fertiliser.

Recommendations for mulch-mowing:

- Cut your lawn regularly. Cut-back by a maximum of 2cm from grass of 6cm height.
- Ensure the blade is sharp for best results - Do not mulch wet grass.
- Set maximum engine speed.
- Only move at a walking pace.
- Regularly clean mulching wedge, housing inner side and mowing blade.

Starting Operation

ONE: Retrofitting for mulching mower

⚠WARNING: Only with a stopped engine and when the blades have completely stopped.

1. Raise the rear cover and remove the grass catcher
2. Push the mulching wedge into the deck. Lock the mulching wedge with the button into the opening on the deck. (Fig.6A/Fig 6B)
3. Lower the rear cover again.

Fig. 6A

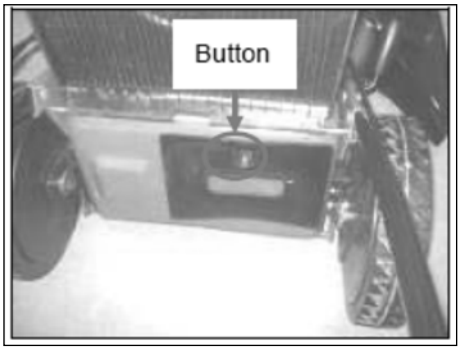

Fig. 6B

TWO: Resetting for side-discharge mowing

WARNING: Only when the engine is completely stopped and the blades have stopped rotating.

1. Lift the rear cover and remove the grass catcher.
2. Mount the Mulching wedge.
3. Lift the flap for side discharge. (Fig. 7A)
4. Mount the side discharge channel for side discharge on the support pin of the sideward flap. (Fig. 7B)
5. Lower the sideward flap- the flap lies on the side discharge channel. (Fig. 7C)

Fig.7A

Fig.7B

Fig.7C

WARNING: Only when the engine is completely stopped and the blades have stopped rotating

THREE: Mowing with the grass catcher

For mowing with the grass catcher, remove the mulching wedge and discharge channel for side discharge and mount the grass catcher.

1. Removing the mulching wedge:

-Lift rear cover and remove the mulching wedge.

2. Removing the side discharge channel for side discharge:

-Lift sideward flap and remove the side discharge channel.

-The sideward flap automatically closes the discharge opening on the housing by mean of spring force.

-Regularly clean the sideward flap and discharge opening forms of grass rest and stuck dirt.

3. Mount the grass catcher:

-To fit: Raise the rear cover and hitch the grass catcher on rear of mower.

-To remove: Grasp and lift the rear cover, remove grass catcher.

WARNING: Only when the engine is completely stopped and the blades have stopped rotating

7. OPERATING INSTRUCTIONS

WARNING! Petrol is highly flammable.

Petrol is highly flammable.

Store fuel in containers specifically designed for this purpose.

Refuel outdoors only, before starting the engine and 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 fill fuel tank indoors, with the engine running or until the engine has been allowed to cool for at least 15 minutes after running.

7.2 TO START THE ENGINE AND ENGAGE THE BLADE

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 cool engine, turn throttle choke lever to " " position. When starting a warm engine and normal operating, turn throttle choke lever to " " position. (Fig. 8A)
3. Standing behind the unit, grasp the brake control handle and hold it against the upper handle as shown in Fig. 8B
4. Grasp the starter handle as shown Fig.8B and pull up rapidly. Return it slowly to the rope guide bolt after engine starts. Releasing the brake control handle stops the engine and blade.

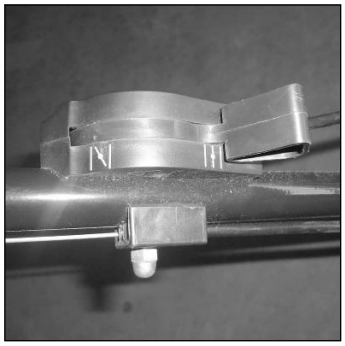

Fig. 8A

Fig. 8B

7.3 OPERATION PROCEDURES

Note: 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.

7.4 TO STOP ENGINE

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. (Fig.9)
2. Disconnect and ground the spark plug wire as instructed in the separate engine manual to prevent accidental starting while equipment is unattended.

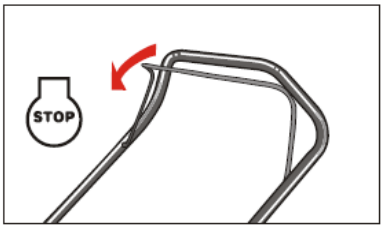

Fig. 9

7.5 CONNECTION FOR AUTO DRIVE – SELF PROPELLED OPTION

Grip the Self-drive control handle, the lawnmower will move forward automatically with a speed of about 3.6km/h (Fig.10), release the self-drive handle, the lawnmower will stop moving.

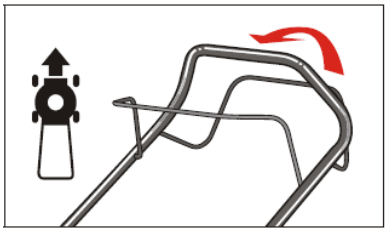

Fig. 10

7.6 FOR THE BEST RESULTS WHEN MOWING

First clear the lawn of debris: Be sure that the grass 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.

General Recommendations: Cut no more than 1/3 the length of the grass.

Ground speed will need to be adjusted to aid the even distribution of clippings onto the lawn.

For especially heavy cutting in thick grass it may be necessary to use one of the slowest speeds in order to get a clean well mowed cut. 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 could prevent proper mulching.

WARNING: If the mower blade strikes a foreign object, stop the engine immediately. 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.

7.7 GRASS CATCHER

Only when the engine is completely stopped and the blades have stopped rotating

There is a transparent window on the rear cover which you can see the grass condition in the grass catcher. (Fig. 11A)

If the grass catcher is full, you will need to empty and clean the grass catcher, make sure it is clean and ensure its meshwork is ventilated.

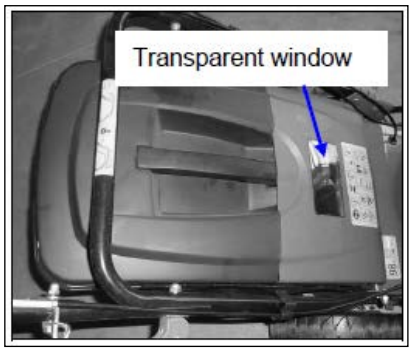

Fig. 11A

7.8 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).

7.9 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 spark plug cable.

Your mower is equipped with a central height adjustment lever offering 10 height positions.

The height (the blade to the ground) can be adjusted from 25 mm to 75 mm (10 height positions).

1. Stop the mower and disconnect the spark plug cable before changing the mower cutting height.
2. The central height adjustment lever offers you 10 different height positions.

To change the height of cut, squeeze the adjuster lever toward the wheel, moving it up or down to the selected height.

Fig. 12

8. MAINTENANCE INSTRUCTIONS

SPARK PLUG

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

9. LUBRICATION INSTRUCTIONS

CAUTION: DISCONNECT 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

10. CLEANING

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

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

10.1 ENGINE AIR FILTER

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 normal mowing. The foam element must be serviced regularly if the mower is used in dry dusty conditions.

To CLEAN AIR FILTER

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 normal mowing. The foam element must be serviced regularly if the mower is used in dry dusty conditions.

To CLEAN AIR FILTER

1. Press down the two tabs on top of the filter cover. (Fig. 13A)
2. Remove the filter cover.
3. Wash filter element in soap 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 filter.

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

Fig. 13A

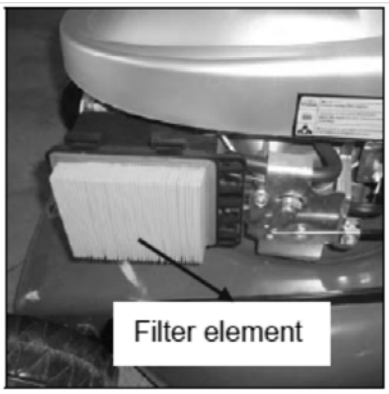

Fig. 13B

10.2 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 mower as specified in 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. Slightly worn blades may be re-sharpened with care. After removing the blade, it may be ground or filed, so that the cutting edge is 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. Improper blade balance will result in excessive vibration causing 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 reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Install the blade adapter on the crankshaft. Refer Fig.15. 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:

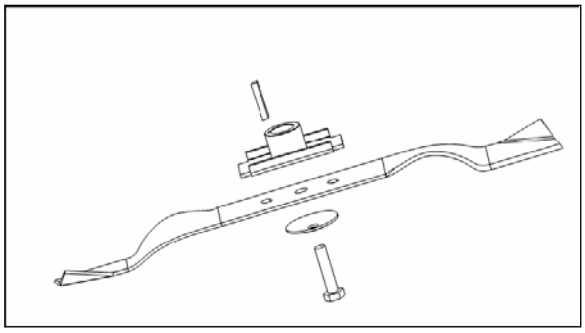

Fig. 14

10.3 BLADE MOUNTING TORQUE

Center Bolt 40Nm.min, 50Nm.max. To ensure 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 is not the responsibility of the manufacturer.
When you change the blade, use the original type marked on the blade:
When you change the blade, use the original type marked on the blade (Cobra Part 263001330) (to order the blade, please contact your local dealer)

WARNING: Do not touch the blade whilst still rotating.

10.4 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 the engine instructions carefully.
Service the air filter as per the separate engine manual. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air filter requires attention. To service the air filter, refer to the separate engine manual packed with your mower. The spark plug should be cleaned and the gap reset annually. Spark plug replacement is recommended at the start of each mowing season. Check the engine manual for the 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 to engine performance. Be certain to remove all grass, dirt and combustible debris from the muffler area.

11. STORAGE INSTRUCTIONS (OFF SEASON)

The following steps should be taken to prepare the lawn mower for storage at the end of the mowing season.
1. Drain the fuel from the engine by running the engine until it stops.
a) Start the engine and let it run until it has used up all remaining petrol and stalls.
b) Remove the spark plug. Use an oilcan to fill approx. 20 ml 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.

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 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 when pushing the lawnmower over obstacles.

12. TROUBLESHOOTING

PROBLEM	**PROBABLE CAUSE**	**CORRECTIVE ACTION**
Engine does not start.	Throttle chock not in the correct position for the prevailing conditions.	Move throttle choke to correct position
	Fuel tank is empty.	Fill tank with fuel: refer to ENGINE OWNERS MANUAL.
	Air cleaner element is dirty.	Clean air cleaner element: refer to ENGINE OWNERS MANUAL
	Spark plug loose.	Tighten spark plug to 25-30Nm.
	Spark plug wire loose or disconnected from 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 ENGINE OWNERS MANUAL
	Carburetor is flooded with fuel	Remove air cleaner element and pull starter rope continuously until carburetor clears itself and install air cleaner element.
	Faulty ignition module	Contact the service agent.
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 cleaner element is dirty.	Clean air cleaner element.
Engine operates erratically.	Spark plug is defective.	Install new, correctly gapped plug: refer to ENGINE OWNERS MANUAL
	Spark plug gap is incorrect.	Set gap between electrodes at 0.7 to 0.8mm
	Air cleaner element is dirty.	Clean air cleaner element: refer to ENGINE OWNERS MANUAL
Engine idles poorly.	Air cleaner element is dirty.	Clean air cleaner element: refer to 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 is 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, air passages
	Incorrect spark plug.	Refer to the engine manual
Mower vibrates abnormally	Cutting assembly is loose.	Tighten blade
	Cutting assembly is unbalanced	Balance 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, 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

13. 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.

CE

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:	M51SPB (DYM1560AQ)
Displacement:	173 cm^3
Max. Cutting length:	510 mm
Measured sound power level	93.9 dB(A)
Guaranteed sound power level:	98 dB(A) Notified Body for EC Directive 2000/14/EC:0036 TüV SüD Industrie Service GmbH Westendstrasse 199. 80686 München. Deutschland
Applicable EC Directives:	EC Machinery Directive: 2006/42/EC EC Directive of Electromagnetic Compatibility (2014/30/EU) EC Directive of noise emission (2000/14/EC) 97/68/EC
Applicable Harmonized Standards:	EN ISO 5395-1 EN ISO 5395-2 EN ISO 14982
Authorized Signature/Date/ Place:	 Peter J. Chaloner 03-10-2016
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