

LAWN MOWER OWNER'S MANUAL

1.8kW Petrol Engine 123CC
420mm CUTTING WIDTH
MODEL: S421-C

SAFETY
OPERATION
ASSEMBLY
MAINTENANCE
WARRANTY



CAUTION:

Read and follow all Safety Rules and Instructions before operating this equipment.

- There is no refund on this Mower after it has been used.
- 1 Year Warranty for any defects and must be accompanied by your Proof of Purchase.
- Warranty does not cover normal wear and tear or misuse.
- Use on small gardens. Not for Commercial use.

IMPORTANT: This Lawnmower is shipped without Oil or Petrol

Product Support:

Phone - 0800 100 045

Email - parts@macvad.com

Thank you for choosing our Eazimow Series 2 Lawnmower.

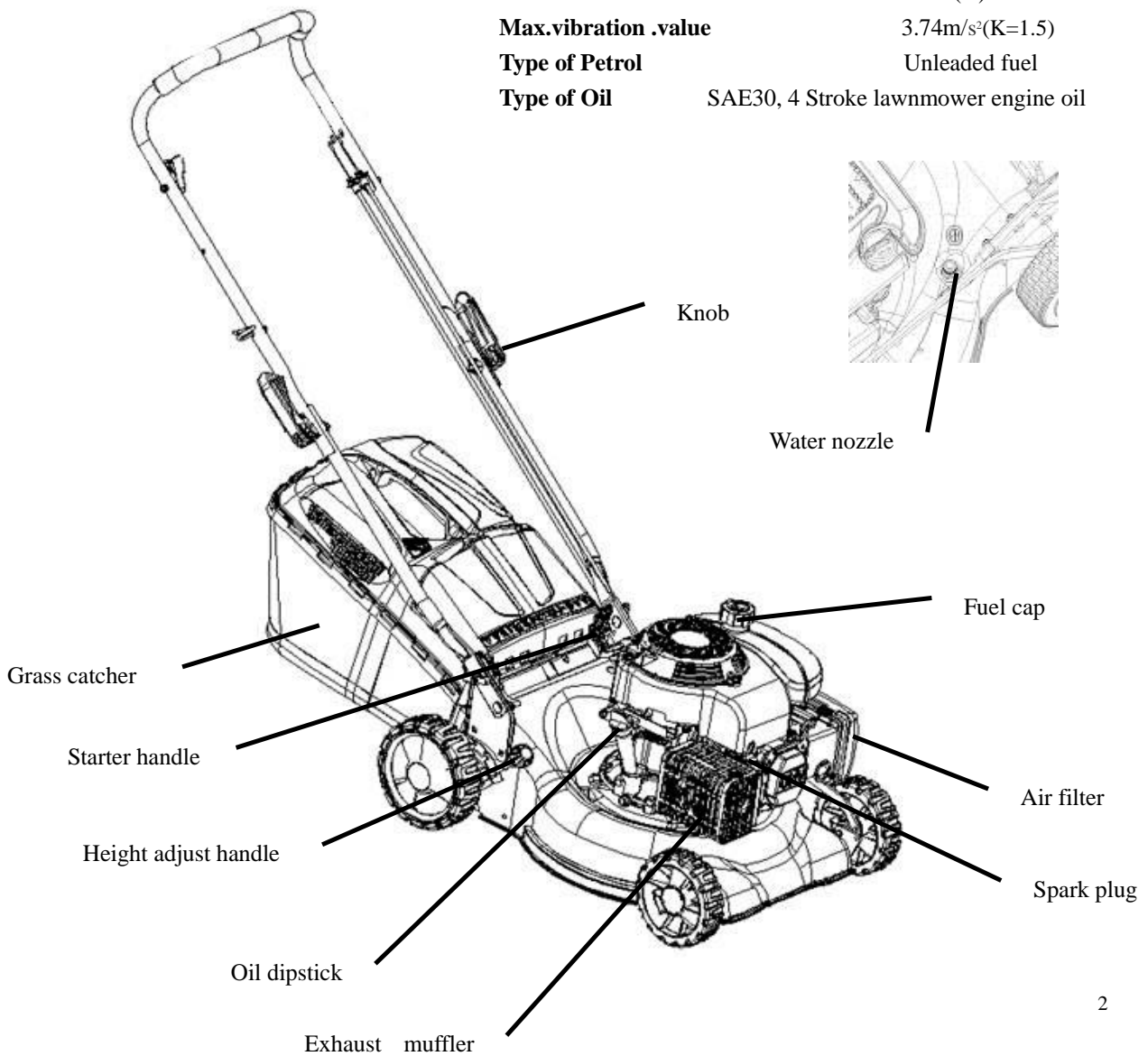
To ensure that you get the best results from your Petrol Lawnmower please read all of these safety and operating instructions carefully before using the product.

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PRODUCT SPECIFICATION

Model number	S421-C push type
Petrol engine	1.8kW
Engine speed	2800-3000rpm/min
Cutting width	420mm
Adjustable cutting height	15-70mm
Grass collection capacity	40L
Sound Pressure Level	81.0dB(A) (K=3.0)
Sound Power Level	93.6dB(A) (K=2)
Guaranteed Sound Power Level	96dB(A)
Max.vibration .value	3.74m/s ² (K=1.5)
Type of Petrol	Unleaded fuel
Type of Oil	SAE30, 4 Stroke lawnmower engine oil



Training

- Read the instructions carefully; be familiar with the controls and the proper use of the equipment.
- Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations can restrict the age of the operator.
- Never mow while people, especially children or pets are nearby.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

Maintenance and storage




- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Never store the equipment with petrol in the tank inside a building where fumes can reach an open flame or spark.
- Allow the engine to cool before storing in any enclosure.
- To reduce the fire hazard, keep the engine, silencer, battery compartment and petrol storage area free of grass, leaves, or excessive grease.
- For safety replace worn or damaged parts.
- If the fuel tank has to be drained, this should be done outdoors.

SYMBOLS

The following symbols can be found on the machine to remind you of the care and attention that are required during use.



IMPORTANT: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

-  **WARNING:** In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire.
-  **WARNING:** Engine exhaust - some of its constituents, and certain vehicle components contain or emit chemicals known to cause cancer and birth defects or other reproductive harm.
-  **CAUTION:** Muffler and other engine parts become extremely hot during operation and remain hot after

engine has stopped. To avoid severe burns on contact, stay away from these areas.

GENERAL OPERATION AND SAFETY RULES

- Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Only allow responsible individuals, who are familiar with the instructions, to operate the machine.
- Thoroughly inspect the area where equipment is to be used and remove all objects which can be thrown by the machine.
- Never mow while people, especially children, or pets are nearby.
- While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Do not pull mower backwards unless absolutely necessary. Always look down and behind while mowing backwards.
- Never operate the lawnmower with defective guards, or without safety devices, for example deflectors and/or grass catchers, in place.
- Only use accessories approved by manufacturer.
- Stop the blade when crossing gravel drives, paths or roads.
- Stop the engine and disconnect the spark plug.
 - Before clearing blockages or unclogging chute.
 - Before checking, cleaning or working on the lawnmower.
 - After striking a foreign object. Inspect the lawnmower for damage and make repairs before restarting and operating the lawnmower.
 - If lawnmower starts to vibrate abnormally (check immediately).
- Shut the engine off and wait until and the blade comes to a complete stop before removing the grass catcher.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Never operate the machine in wet grass, reduced footing can cause slipping. Keep a firm hold on the handle and walk, never run.
- Disengage the self-propelled mechanism before starting the engine.
- Replace faulty silencers.
- Always wear safety goggles or safety glasses with side shields when operating mower.
- Remove obstacles such as rocks, branches etc.
- Watch for holes, ruts, or bumps. Tall grass can hide obstacles.
- Do not trim near drop-offs, ditches or embankments. The operator could lose footing or balance.
- Do not mow excessively steep slopes.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
- Be alert and turn machine off if children enter the area.
- Mow across the face of slopes, never up and down.
- **WARNING** Petrol is highly flammable.
 - store fuel in containers specifically designed for this purpose.
 - refuel outdoors only and do not smoke while refueling.
 - 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 has spilled, do not attempt to start the engine. Move the machine away from the area of

spillage and avoid creating any source of ignition until the petrol vapours have dissipated.

- replace all fuel tanks and container caps securely
- Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up.
- Clean spilt oil or spilt fuel.
- Allow machine to cool before storing.
- Exercise extreme caution when changing direction on slopes.
- Never attempt to make wheel height adjustments while the engine (motor) is running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade in cloth or wear gloves, and use extra caution when servicing them.
- Do not change the engine governor setting or over speed the engine.
- Use extreme caution when reversing or pulling the lawnmower towards you.
- Stop the blade if the lawnmower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawnmower to and from the area to be mowed.
- Start the engine or switch on the motor carefully according to instructions and with feet well away from the blade.
- Do not tilt the lawnmower when starting the engine or switching on the motor, except if the lawnmower has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part which is away from the operator.
- Do not start the engine when standing in front of the discharge chute.
- Never pick up or carry a lawnmower while the engine is running.

ASSEMBLY/PRE-OPERATION

Read these instructions and this manual in its entirety before you attempt to assemble to operate your new lawnmower.

IMPORTANT:

The lawn mower is shipped **WITHOUT OIL OR PETROL** in the engine. Your new lawn mower has been assembled and tested at the factory.

REMOVE LAWN MOWER FROM CARTON

Roll lawn mower out of carton and check carton thoroughly for additional loose parts.

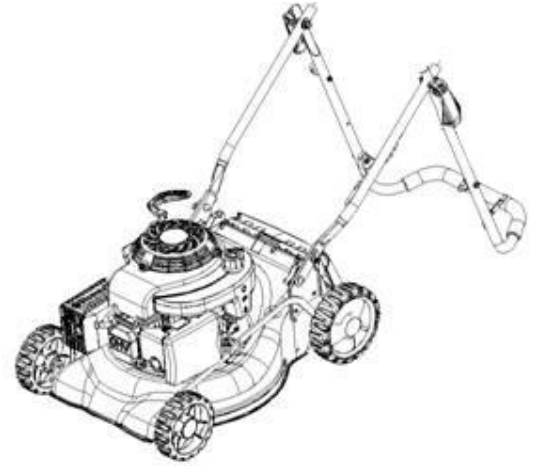
INSTALL ATTACHMENTS

Your lawn mower was shipped ready to be used as rear bag mower.

SET UP YOUR MOWER

IMPORTANT: Unfold handle carefully so as not to pinch or damage control cables.

1. Raise handles until lower handle section locks into place at mowing position.
2. Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs.



OPERATION

ENGINE SPEED

The engine speed was set at the factory for optimum performance. The speed is not adjustable.

ADJUST CUTTING HEIGHT

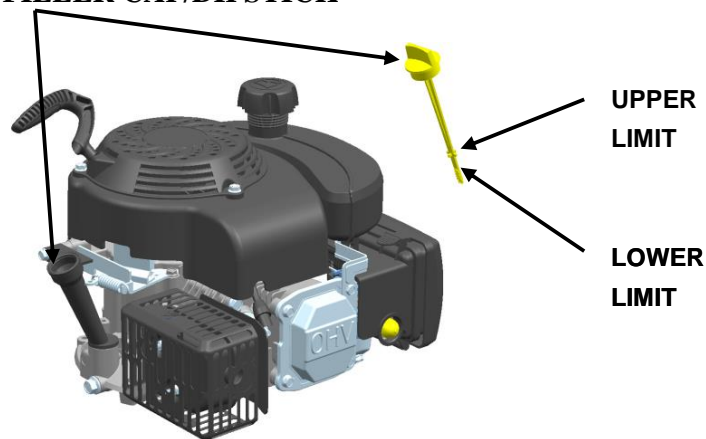
Raise wheels for higher cut and lower wheels for lower cut; adjust cutting height to suit your requirements. Medium position is best for most lawns.

BEFORE STARTING ENGINE ADD OIL (+ - 500ml)

Before each subsequent use the oil level must be checked and if necessary topped up with SAE30, 4 Stroke lawnmower engine oil.

Top up to the “Upper Limit” mark before starting the engine.

OIL FILLER CAP/DIPSTICK



Your lawnmower is shipped without oil in the engine.



CAUTION: DO NOT overfill engine with oil, or it will smoke heavily from the muffler on startup.

1. Be sure the lawnmower is level.
2. Remove oil dipstick from oil fill spout.
3. Insert and tighten dipstick.
4. Fill to full line on dipstick.

IMPORTANT:

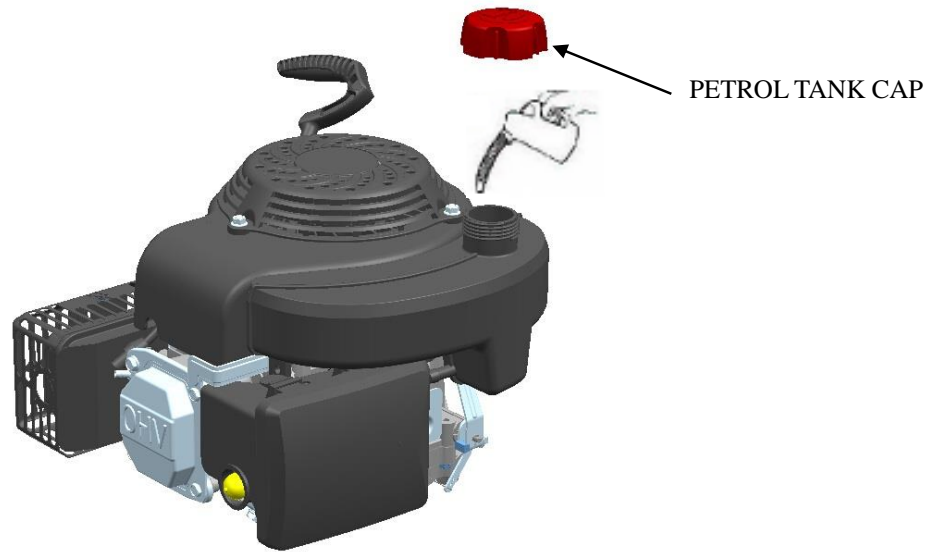
- Check oil level before each use. Add oil if needed. .
- Change the oil after every 25 hours of operation or each season. You may need to change the oil more often under dusty, dirty conditions. See “TO CHANGE ENGINE OIL” in the Maintenance section of this manual.

ADD PETROL

- Fill fuel tank to bottom of tank filler neck Do not overfill. Use fresh, clean, regular unleaded petrol. Do not mix oil with petrol. Purchase petrol in quantities that can be used within 30 days to assure fuel freshness.



CAUTION: Wipe off any spilled oil or fuel. Petrol should never be anywhere near an open flame.



⚠ CAUTION: Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Empty the petrol tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information.

Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

START ENGINE

To start the engine, first make sure that the spark plug cap is on and that the machine is filled with sufficient oil and fuel.

Push Prime Button several times to prime.

NOTE: Due to protective coating on the engine, a small amount of smoke may be present during the initial use of the product and should be considered normal.

Move throttle control to “Start” position and pull starter rope to start.

Do not allow starter rope to snap back.

NOTE: In cold conditions, it’s necessary to push the prime button on the air filter before pulling the starter coil.

When you push the prime button, it will pump the fuel direct from carburetor to combustion chamber.

Primer only for cold engine use

Temperature	Push time
<0°C	2~3
0°C~10°C	1~2
10°C~20°C	0~1
>20°C	0

NOTE: In cold conditions it may be necessary to repeat priming steps.

STOP ENGINE

- To stop the engine, turn the throttle control to STOP position.

⚠ WARNING! The blade will continue to rotate for a few seconds after the engine has stopped. Disconnect the spark plug cap if the lawnmower is to be left unattended.

MOWING TIPS

- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cutting to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and/or run the lawn mower over the area a second time.
- For extremely heavy cutting, reduce the width of cut by over lapping previously cut path and mow slowly.
- Pores in the cloth grass catcher can become filled with dirt and dust with use and the catcher will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using.

- Keep top of engine around starter clear and clean of grass clippings and chaff.

This will help engine air flow and extend engine life.

MAINTENANCE

IMPORTANT-Regular, careful maintenance is essential for keeping the safety level and original performance of the machine unchanged in time.

1)Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.

Regular maintenance is essential for safety and performance.

2)Never store the equipment with fuel in the tank inside a building where vapour may reach a flame or a spark or a source of extreme heat.

3)Allow the engine to cool before storing in an enclosed space.

4)To reduce the fire hazard, keep the engine, exhaust silencer, battery compartment and fuel storage area free of grass, leaves, or excessive grease. Do not leave containers with grass cuttings in rooms.

5)For reasons of safety, do not use equipment with worn or damaged parts. Parts are to be replaced and not repaired. Use genuine spare parts (blades should always bear the symbol).

Parts that are not of the same quality can damage the equipment and be dangerous for your safety.

6)If the fuel tank has to be drained , this should be done outdoors and when the engine is cool.

7)Wear strong work gloves when removing and reassembling the blade.

8)Check the blade's balance after sharpening.

9)Check the self-closing guard and grass-catcher frequently for wear and deterioration.

10)Whenever the machine is to be handled, transported or tilted you must:

-Wear strong working gloves;

-Grasp the machine at the points that offer a safe grip, taking account of the weight and its distribution.

CLEANING

Carefully clean the machine with water after each cut; remove the grass debris and mud accumulated inside the chassis to avoid their drying and thus making the next start-up difficult.

The paintwork on the inside of the chassis may peel off in time due to the abrasive action of the cut grass; in this case, intervene promptly by touching up the paintwork using a rustproof paint to prevent the formation of rust that would lead to corrosion of the metal.

CHANGING BLADES

Tilt the mower backwards.

The blade is sharp therefore use cloth or thick gloves when handling the blade.

To replace the blade, undo the screw.



Reinstall as illustrated. Tighten the screw properly. Tightening torque 45 Nm.

When replacing the blade, the blade screw should also be replaced.

CHANGE OIL

1. Let engine run for a while.
Stop/turn off and cool slightly.
2. Disconnect spark plug wire and keep away from spark plug.
3. When engine is still warm, remove oil drain plug(A).
Drain oil into a proper container.(Fig.12)
4. Clean the oil drain plug before restoring.
5. Place engine level. Remove dipstick.Add new recommended oil about 500ml,SAE 30,4 Stroke lawnmower oil slowly to upper limit on dipstick.
Don't overfill.
6. Replace dipstick.

WARNING: Used oil is a hazardous waste product. It is suggested to take used oil to your local recycling center in a sealed container. Do not discard with household waste.

WARNING: Prevent skin cancer with used engine oil. Wash your skin with soap and water after oil change.



Spark Plug

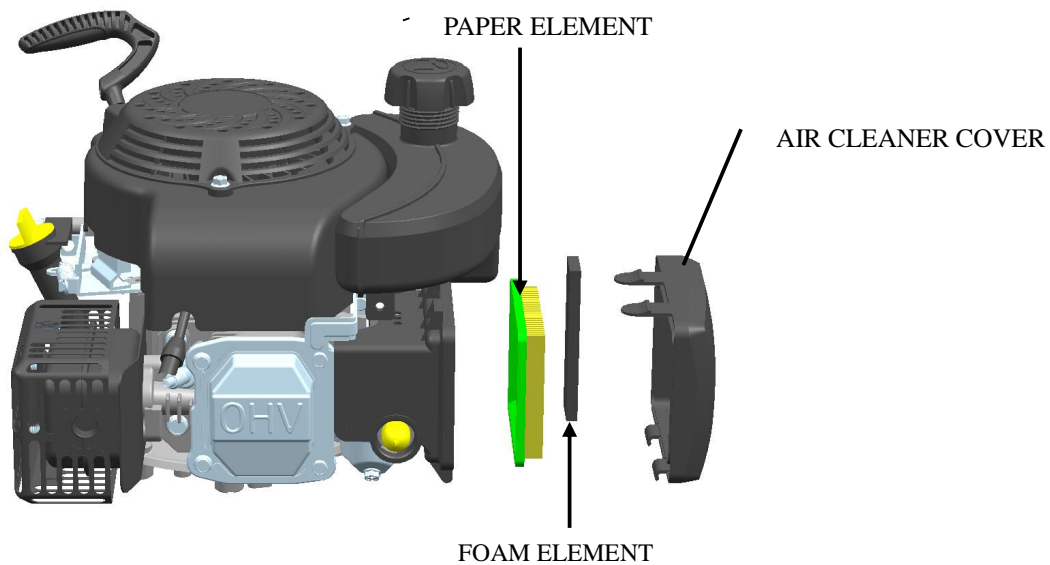
Once the engine has cooled, remove the spark plug and clean the plug with a wire brush. Using a feeler gauge, set the gap to (0.7-0.8) mm(0.028-0.031"). Refit the spark plug taking care not to overtighten.



Air Filter

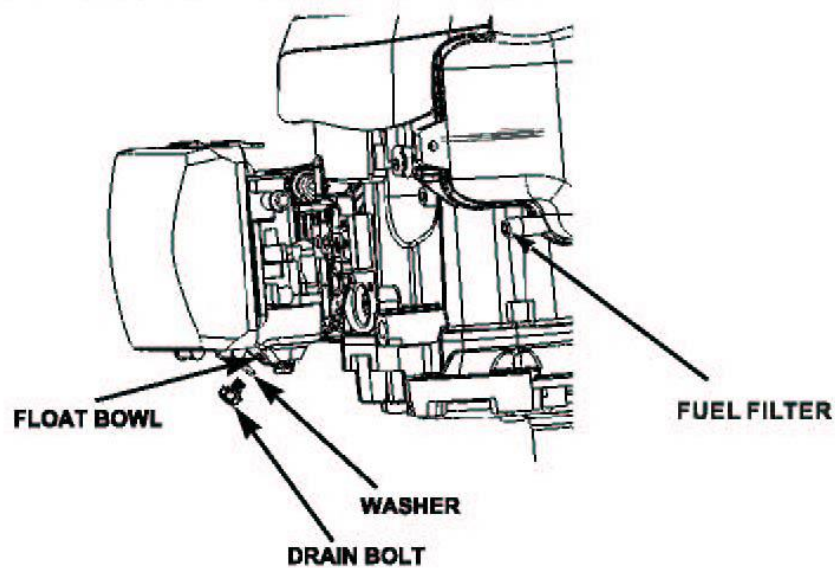
Unclip the air filter cover and remove the sponge filter element.

To avoid objects falling into the air intake, replace the air filter cover.



DRAINING THE FUEL TANK AND CARBURETOR

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



MAINTENANCE SCHEDULE

REGULAR PERIOD	SERVICE	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 250 Hrs
ITEM Perform at every indicated month or operating hour interval, whichever comes first.							
Engine oil	Check	O					
	Replace		O		O		
Air Filter	Check	O					
	Replace			O			
Spark plug	Check-adjust					O	
	Replace						O
Fuel tank and filter	Clean					O	
Fuel tube	Check	Every 2 years (Replace if necessary)					
Valve clearance	Check-adjust					O	
Combustion chamber	Clean	After every 200 hours					

TROUBLE SHOOTING

ENGINE WILL NOT START	Possible Cause	Correction
1. Check fuel.	Out of fuel.	Refuel
	Bad fuel; engine stored without treating or draining petrol, or refueled with bad petrol.	Drain the fuel tank and carburetor (p.12). Refuel with fresh petrol.
2. Remove and inspect spark plug.	Spark plug faulty, fouled, or improperly gapped.	Replace the spark plug(p.11).
	Spark plug wet with fuel (flooded engine).	Dry and reinstall spark plug.
3. Take engine to an authorized servicing dealer.	Fuel filter clogged, carburetor malfunction,ignition malfunction, valves stuck, etc.	Replace or repair faulty components as necessary.
4. Push the prime button	In cold condition	Push the prime button.

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 petrol, or refueled with bad petrol.	Drain the fuel tank and carburetor. Refuel with fresh petrol.
3. Take engine to an authorized Repair Agent, or refer to shop manual.	Fuel filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Replace or repair faulty components as necessary.

Tune up Specifications

ITEM	SPECIFICATION	MAINTENANCE
Spark plug gap	0.028-0.031 in(0.7-0.8 mm)	Refer to page 8.
Valve clearance (cold)	IN:0.06 ± 0.02mm EX:0.08 ± 0.02mm	See your authorized dealer

STORAGE

The same petrol must not remain in the tank for more than one month.

Thoroughly clean the mower and store it indoors in a dry place.

THE ENVIRONMENT

In order to protect the environment, we recommend that the following points should be given special consideration:

- Always use pure unleaded petrol.
- Always use a funnel petrol can with a level control to avoid spillage when refilling the fuel tank.
- Do not fill the fuel tank completely.
- Do not overfill with engine oil.
- When changing the oil, ensure that all the used oil is collected. Avoid spillage. Take the used oil to a recycling unit.
- Do not dispose of used oil filter in a rubbish bin. Take it to a recycling unit.
- Replace the silencer if faulty.
- When carrying out repairs, always use genuine spare parts.
- Always seek professional help when the carburetor requires an adjustment.
- Clean the air filter according to directions.
- When, after many years of service, your machine needs to be replaced or is no longer required, we recommend that the machine is returned to your distributor for recycling.

SERVICING & WARRANTY

This Product comes with a 1 Year Mechanical Warranty

Genuine spare parts are supplied by service workshops and by many dealers. We recommend that you take the machine to an authorized Repair Agent for annual servicing, maintenance and inspection of safety equipment. For service and spare parts, please contact the dealer where the machine was purchased or call 0800 100 045 or e-mail parts@macvad.com.