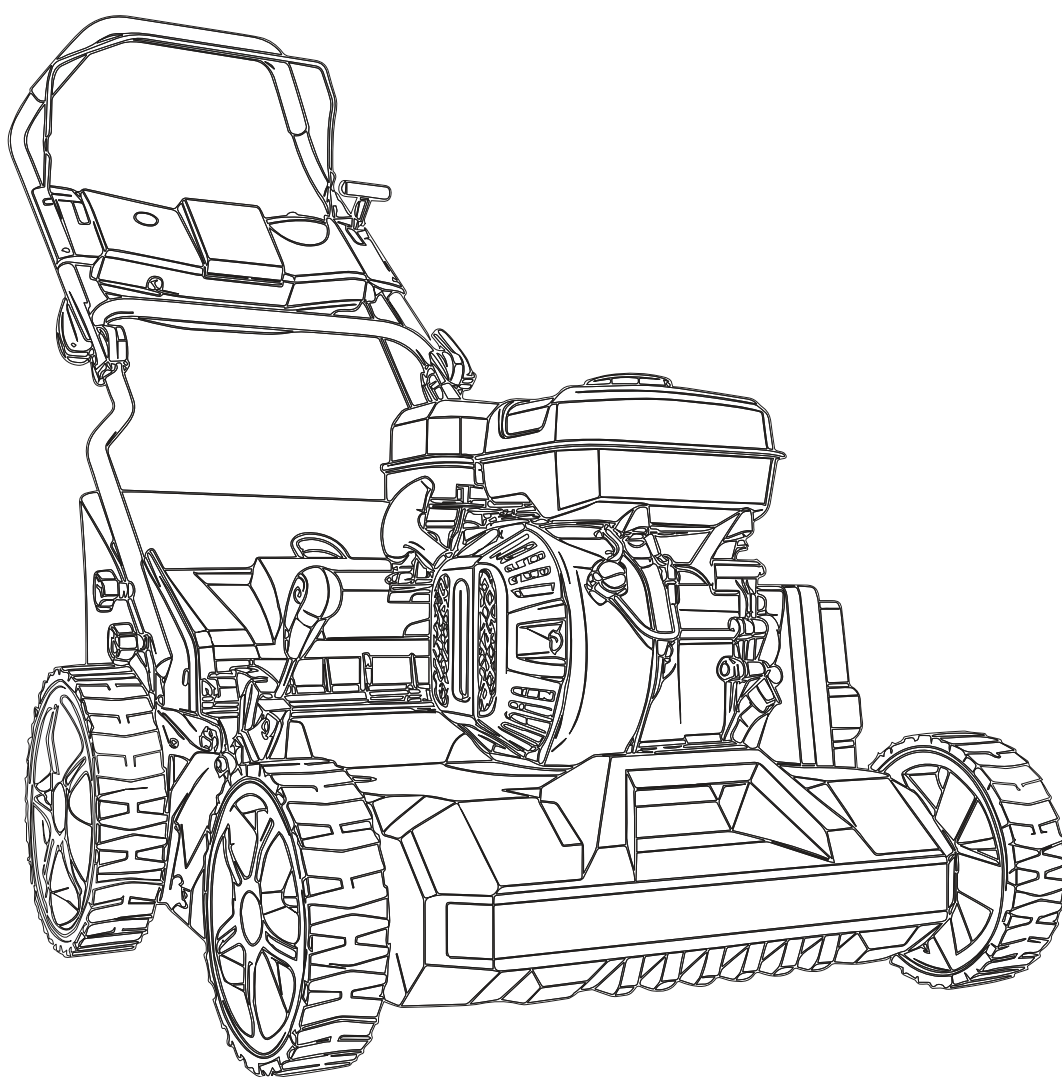


SPECTRUM



Products

TG45SC / TG45SC-E PETROL SCARIFIER



Owner's Manual



WARNING: Read the instructions carefully before use.

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Introduction

Thank you for buying our product

We work very hard to give all of our customers the best possible service. If you have any problems, before leaving negative feedback, please contact us to give us a chance to resolve the issue. We would be delighted if you left us positive feedback! Thank you for purchasing this product.

IMPORTANT!



WARNING: READ THE INSTRUCTION BOOKLET THOROUGHLY BEFORE USING THE MACHINE

Keep for future reference and pass it on if the machine is loaned or sold to another user.

Please read and understand these instructions before you use your product. Failure to do this may result in personal injury or damage to the product.

The safety precautions and warnings are to ensure your safety and protect you from harm or damage to the product.

The information contained in this manual was accurate at the time of production, however we may make modifications to the product without notification.

These are the original product instructions. This document is part of the product; retain it for the life of the product, passing it on to subsequent holders. Read this manual in full before attempting to assemble, operate or maintain this product.

This manual describes the purpose of the product and contains all the necessary information to ensure its correct and safe use. Following all the instructions and guidance in this manual will ensure the safety of both the product and the operator and increase the lifespan of the product.

All photographs and drawings within this manual are to help illustrate correct operation of the product. Every effort has been made to ensure the information contained in this manual is accurate. However, we reserve the right to amend this document without prior warning. Always use the latest version of the product manual.

Safety Information

Understand your Machine

- **WARNING!** You must read these instructions carefully before operating the machine. Make sure that you are familiar with the controls and properly operate the machine. You must learn how to stop the machine quickly. If you do not follow the warnings and instructions, it may result in fire and/or serious injury. Make sure to save all warnings and instructions for future reference.
- Read this manual and labels affixed to the machine to understand its limitations and potential hazards.
- Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.
- If the unit is to be used by someone other than the original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.
- Do not force the machine beyond its limits. Use the correct machine for your application.
- Know how to stop the machine quickly in case of emergency. Understand the use of all controls.
- ALL MAINTENANCE other than that listed in this manual, should be carried out by professionally trained and certified personnel.
- When using this machine for the first time and before actual work, you **MUST** learn how to handle the machine from an experienced or skilled person.

Personal Safety

- **WARNING!** Never allow children or people unfamiliar with these instructions to use the product. Local regulations can restrict the minimum age of the operator.
- Keep children, pets, and other people not using the unit away from the work area (at least 1.5m). Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.
- Stay alert, watch what you are doing and use common sense when operating the machine. Never operate the machine when unwell or tired, or if you have taken alcohol, medicine, drugs or any substances which may slow your reflexes and compromise judgment. A moment of inattention while operating the machine may result in serious personal injury.
- Appropriate Personal Protective Equipment (PPE), **MUST** be worn at all times when operating or repairing the machine. Always wear anti-slip and resistant work footwear and long trousers while using the machine. Do not use the machine when barefoot, wearing sandals or similar lightweight footwear. Do not wear chains, bracelets or clothing that is loose fitting or hanging ties or cords. Tie long hair back. Always wear protective ear-plugs. Loose clothes, jewellery, or long hair can be caught in moving parts. Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.
- Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts. Always keep hands and feet away from all pinch points.

Safety Information

Personal Safety (Continued)

- Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations. Extending your body too far can result in a loss of balance and you may fall which will result in injury.
- Never place any part of your body where it would be in danger if movement should occur during assembly, installation, and operation, maintenance, repairing or moving.
- Keep in mind that the operator or user is responsible for accidents, hazards or unexpected events involving the machine that occur to other people or their property. It is the responsibility of the user to assess the potential risk of the area where work is being carried out. The operator or user must take all necessary precautions to ensure their own safety and that of others, especially on slopes or rough, slippery and unstable ground.

Inspect your Machine

- Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.
- You must check the general condition of the machine before use.
- Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Keep the machine in safe working condition.
- Do not use the machine if the machine's OPC lever does not turn off the machine when running. Any machine that can't be controlled with the OPC is dangerous and must be replaced.
- Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.
- If the machine should start to vibrate abnormally, stop the machine and check immediately for the cause. Vibration is generally a warning sign of trouble.
- Avoid accidental starting. Be sure the OPC is disengaged before transporting the machine or performing any maintenance or service on the unit. Transporting or performing maintenance or service on a machine with the OPC engaged invites accidents.
- Do not tamper with or disable safety systems.
- Only use manufacturer-recommended attachments.
- Before using, always visually inspect to see that the tools are not worn out or damaged. Replace worn out or damaged elements and bolts in set to preserve balance.
- Keep the machine in good operating condition. Operating the machine in poor or questionable condition could result in serious injury.
- Be sure all safety devices are in working order and warning labels are in place. These items are installed for your safety.

Safety Information

Work Area

- Make sure you thoroughly inspect the entire work area and remove all objects and anything that could be thrown by the machine or could damage the engine or machine (branches, stones, wire, toys, etc). Attempting to clear the work area whilst using the machine will reduce your concentration and creates a trip hazard. Any liquid spilled on the floor may result in you slipping.
- You must only work in daylight or with good artificial light in good visibility conditions. Do not work at night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the area.
- Keep people, children and animals away from the working area.
- Operate on level ground.
- DO NOT work on wet ground. If there has been heavy rain on the working area, wait until the ground has dried up.
- You must pay special attention when approaching obstacles that could compromise visibility.
- Exercise extreme caution when changing direction on slopes. When changing direction, you need to be careful that the wheels do not hit any obstacles (such as roots, branches, stones, etc) that can cause the machine to slide sideways or make you lose control of it. Avoid operating on slopes steeper than 15%. Make sure on slopes you have a steady foothold.
- Find and locate all fixed objects in the ground, such as sprinkler systems, poles, water valves, bases for washing lines etc. Make sure that you check for hidden electrical cables or similar on the surface of the lawn. ALWAYS run the machine around these objects. NEVER intentionally run the machine over foreign objects.
- Never park the machine in a place with unstable ground which could give way.
- You must be careful near ravines, ditches or embankments.
- Exercise extreme caution when operating near or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- Pay the utmost attention when working on frozen ground as the machine may tend to skid.
- Do not work in the rain, when there is a thunderstorm or lightning risk, at times of strong or gale force winds, or at any other times when the weather conditions might make it unsafe to use this product. If there is bad weather conditions, do not use the machine.

Safety Information

During Use

- Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.
 - Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.
 - Walk, never run with the machine. Be very careful when pulling the machine toward you. You must look behind you to make sure there are no obstacles before and during operations in reverse gear (if applicable). Do not allow the machine to pull you along.
 - **WARNING!** If something breaks or an accident happens whilst working, you must turn off the engine immediately and move the machine away to prevent further damage. If an accident happens with injuries or third parties are injured, carry out the first aid measures most suitable for the situation immediately and contact the medical authorities for any necessary health care. Carefully remove any debris that might cause damage or harm persons or animals should it not be seen.
 - Disengage clutch lever before starting the engine.
 - Use extreme caution when reversing or pulling the machine backwards.
 - Do not carry passengers.
 - Never operate the machine at a fast pace.
 - The excessive speed of movement or the absence of maintenance have a significant influence on noise emissions and vibrations. It is necessary to take preventive steps to eliminate possible damage due to high levels of noise and stress from vibration. You must maintain the machine well, wear ear protection and take breaks from working.
 - After striking a foreign object, stop the engine immediately, remove the spark plug cap and inspect the machine thoroughly for damage. Repair the damage before continuing.
 - Never attempt to make any adjustments, while the engine is running.
 - Never attempt to move the machine in any way other than intended for normal use while the engine is running.
 - Factory-fitted control devices, such as the handle-mounted clutch cable, must not be removed or exposed.
-
- You must disengage the blade, switch off the engine (making sure that all moving parts are stationary):
 - Before refuelling.
 - Before adjusting the cutting height.
 - After striking a foreign object, you must inspect the machine for damage and make repairs before using it again.
 - Before checking or working on the machine.
 - Before clearing blockages.
 - When transporting the machine.
 - Whenever you leave the machine unattended.
 - When crossing surfaces other than grass.
 - Before emptying the grass collector.
 - Before changing the cutting height.

Safety Information

Carbon Monoxide

DANGER!

Engine exhaust fumes contain Carbon Monoxide. This is a poisonous gas and can kill in minutes. NEVER use inside a building or in an area with poor ventilation. NEVER use inside a confined space, such as but not limited to a house, garage, vehicle, boat or tent. ONLY use outside and far away from windows, doors and vents.

CARBON MONOXIDE IS A COLOURLESS, ODOURLESS GAS. INHALING THIS GAS CAN CAUSE DEATH OR SERIOUS LONG-TERM HEALTH PROBLEMS SUCH AS BRAIN DAMAGE.

Never operate the engine in a confined space where dangerous carbon monoxide fumes can develop. All ignition operations have to be effected in an open or well-ventilated area. Always remember that exhaust fumes are toxic.

The symptoms of carbon monoxide poisoning can include but are not limited to the following; Headaches, dizziness, nausea, breathlessness, collapsing or loss of consciousness.

Carbon monoxide poisoning symptoms are similar to flu, food poisoning, viral infections and simply tiredness. It is quite common for people to mistake this very dangerous poisoning for something else.

To avoid carbon monoxide poisoning DO NOT use Petrol/Diesel powered equipment inside any of the following; Home, garage, tent, camper van, mobile home, caravan or boat. DO NOT use in an enclosed area or moving vehicle. This is not exhaustive and if you are in any doubt contact your dealer.

If you think you have or someone around you has been affected by carbon monoxide poisoning; Get them fresh air immediately, by leaving the affected area or by opening doors and windows. If safe and practical to do so make sure that the machine is turned off. DO NOT enter a room you suspect of having carbon monoxide present – instead call the emergency services.

Contact a Doctor immediately or go to Hospital – let them know that you suspect carbon monoxide poisoning.

Safety Information

Fuel Safety



CAUTION! ALL FUELS ARE HIGHLY FLAMMABLE AND PETROL VAPOUR IS EXPLOSIVE. TAKE EXTREME CARE WHEN HANDLING FUEL. KEEP FUEL OUT OF REACH OF CHILDREN.

General Safety

- Do not smoke each time fuel is handled.
- ALWAYS avoid inhaling fumes.
- ALWAYS carry fuel in the correct and clearly marked container.
- ALWAYS wear correct, suitable and fit for purpose Personal Protective Equipment (PPE), suggested items are but not limited to safety gloves and overalls.
- To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.
- Do not operate the machine with known leaks in the fuel system.
- Fire hazard - keep fuel away from all sources of ignition for example heaters, lamps, sparks from grinding or welding.
- DO NOT carry out hot work on tanks that have contained fuel.
- ALWAYS keep the work area tidy.
- ALWAYS dispose of waste fuels correctly.
- Serious personal injury can occur when petrol is spilled on yourself or your clothes. Rinse your skin and change your clothes immediately.

Spilled Fuel

- If you have spilled fuel, make sure you do not attempt to ignite the engine but move the machine away from the area of spilled fuel and avoid creating any source of ignition until the fuel has evaporated and fuel vapours have dissipated.
- When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.
- ALWAYS clean up spills promptly using absorbent granules and a lidded bin.

Fuel Information

Using E5 Petrol Important: This product must be used with high-quality unleaded fuel ONLY. ALWAYS use automotive petrol/gasoline suitable for four-stroke engines; DO NOT mix fuel and oil. It is recommended to use E5 automotive fuel, with an appropriate additive or stabiliser in this product. Damage caused by failure to add fuel or using incorrect or poor-quality fuel is not covered by your warranty. CAUTION! E5 petrol is hygroscopic and attracts moisture, which may damage the fuel system if stored in the product for more than four weeks. After draining the fuel tank, always run the engine until the last of the fuel in the system is spent and drain the float bowl when the engine is cool. E5 petrol should be used within 30 days of purchase. Some petrol brands contain other quantities of ethanol. DO NOT use fuels with more than 10% ethanol in your Spectrum product. Always store and dispose of fuels responsibly and in accordance with local regulations.

Safety Information

Battery Safety



There is an explosion risk if the battery terminals are short circuited, when connecting/disconnecting ALWAYS exercise great care so that the terminals or battery leads are NOT allowed to touch and cause a spark. ALWAYS use suitable insulated tools.

Batteries present a risk if they become damaged by the possible leaking of electrolyte. This electrolyte is an acid and can cause serious burns. Care should be taken when working on or near them. NOTE the electrolyte may be in a liquid or gel form. Should you come in to contact with electrolyte you should;

- Remove all clothing contaminated with electrolyte. If you cannot remove then saturate them in water.
- Get medical assistance as soon as possible.

. This machine contains LiFePO_4 batteries with LiPF_4 electrolyte.

- Use fresh running water to wash off excess electrolyte, continue this until medical assistance arrives. Make sure that you do not wash the electrolyte to another part of your body or face.
- If electrolyte comes in to contact with Eyes the electrolyte needs to be immediately washed away with large amounts of water. Make sure that you do not wash the electrolyte to another part of your face or body.
- Gasses from charging batteries are highly flammable and great care should be taken to charge in well ventilated areas.

Electrical Safety (Where Applicable)

Prior to carrying out any maintenance work you **MUST** identify electrical isolation methods and isolate all electrical supplies.

- Prior to use and with all electrical supplies isolated, you **MUST** check all electrical cables, plugs and connectors for the following;

- Are intact and have no signs of damage, to include but not limited to bare wires, chaffing, cuts and loose wiring.
- If there are any signs of damage, the damaged item **MUST** be taken out of service until the damage has been repaired by an electrically competent person.
- All trailing cables should be routed so as not to cause any kind of trip hazard.
- **NEVER** work on or near electricity with wet hands, wet clothing and wet gloves.

Safety Information

Fueling/Draining Fuel

- ALWAYS fuel in a well ventilated area outside of buildings. Use a funnel to add fuel, only outdoors. Do not smoke during this and each time fuel is handled.
- Add fuel before igniting the engine, never remove the fuel tank cap or add fuel whilst the engine is running or when it is hot.
- When draining fuel, ALWAYS use a proper fuel retriever.
- Never overfill the fuel tank. Engine heat can cause fuel to expand, never fill the tank to more than 1/2" below the bottom of the filler neck. This will provide space for fuel expansion.
- When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation.
- Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.
- Loosen the fuel tank cap slowly to relieve any pressure in the tank.
- ALWAYS keep the handles dry, clean and free of oil and fuel.
- After fueling, ensure to tighten the cap securely.
- Never use the lock-function when filling with fuel.

Storing Fuel

- Store fuel in containers specifically designed and approved for fuel storage.
- Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.
- Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.
- Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Safety Information

Vibrations (Where Applicable)

- The operating noise of the machine can damage your hearing. When wearing protection such as earplugs or ear defenders to protect your hearing. Long-term and regular users are advised to have hearing checked regularly. Be especially vigilant and cautious when wearing ear protection because your ability to hear alarm warnings will be reduced.
- Noise emissions for this equipment is unavoidable. Carry out noisy work at approved times and for certain periods. Limit the working time to a minimum. For your personal protection and protection of people working nearby it is also advisable for them to wear hearing protection.
- See Certificate of Conformity section for Outdoor Noise declaration of conformity.

Noise (Where Applicable)

- The operating noise of the machine can damage your hearing. When wearing protection such as earplugs or ear defenders to protect your hearing. Long-term and regular users are advised to have hearing checked regularly. Be especially vigilant and cautious when wearing ear protection because your ability to hear alarm warnings will be reduced.
- Noise emissions for this equipment is unavoidable. Carry out noisy work at approved times and for certain periods. Limit the working time to a minimum. For your personal protection and protection of people working nearby it is also advisable for them to wear hearing protection.
- See Certificate of Conformity section for Outdoor Noise declaration of conformity.

Safety Information

Personal Protective Equipment

Appropriate Personal Protective Equipment (PPE), MUST be worn at all times when operating or repairing the machine. No protective equipment can ensure 100% protection. When selecting PPE, make sure it's CE marked and it suits the user in terms of size, fit, etc. If more than one item of PPE is worn at the same time, make sure they can be used together, e. g. wearing safety glasses may disturb the seal of a respirator, causing air leaks.



Hand Protection Must Be Worn

Protective electrically non-conductive gloves are highly recommended when working.



Foot Protection Must Be Worn

Non-skid heavy duty footwear is highly recommended when working.



Hearing Protection Must Be Worn

Suitable safety hearing protection is recommended.



Eye Protection Must Be Worn

Always wear safety glasses/goggles and/or face shields. Everyday eye-glasses have only impact resistant lenses; they are not safety glasses/goggles.



Protective Clothing Must Be Worn

Do not wear loose clothing, gloves, scarfs, neckties or jewellery (rings, wrist watches), which can be caught in moving parts.



Head Protection Must Be Worn

Wear a safety helmet with a safety visor.



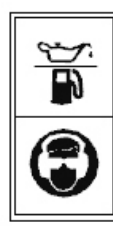
Face Shield Must Be Worn

Wear a face shield to protect your face

Safety Information

Symbols on the Machine

We have provided safety messages in this manual and on the machine. This information alerts you to potential hazards that could hurt you or others. Please read these messages carefully. However, we may not have listed all of the possible hazards, you must also use your own judgement.

Symbol	Description	Symbol	Description
	WARNING, if you don't understand the risks of this machine you are a risk. Read the manual and operate the machine safely		Do not refuel the machine whilst the machine is running
	Projectile warning. This machine has the risk of creating projectiles, keep a safe distance from people within the work area.		Hot surface warning. Do not touch surfaces near this sticker as there is a risk of burning
	Carbon monoxide warning. This machine must be operated in a well ventilated area		Fuel and Eyewear. This machine requires petrol and always wear protective eyewear
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check your local authority or retailer for recycling advice.		This product complies with the European directives and an evaluation method of conformity for these directives was done
	The UKCA (UK Conformity Assessed) marking is a UK product marking that is required for goods being placed on the market in Great Britain (England, Wales and Scotland).		Sound power level LWA data in dB.

Safety Information

Intended Use

The product is a petrol Scarifier.

The product is a garden tool and specifically a pedestrian controlled scarifier. The machine is essentially composed of a motor which drives blades enclosed in a casing, equipped with wheels and a handle. The operator is able to operate the machine and use the main controls, always staying behind the handle at a safe distance from the rotating blade.

Intended Use

This machine was designed and manufactured for removing moss and weeds out of the lawn and for loosening the soil, in areas in proportion to its working capacity, controlled by a pedestrian operator.

User Types

This machine is intended for use by consumers, i. e. non-professional operators. The machine is intended for "DIY" and domestic use only.

This garden tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the machine by a person responsible for their safety. Never allow children or people unfamiliar with these instructions to use the garden tool.

Supervise children. This will ensure that children do not play with the unit.

Any other use is not as intended. Improper use is not covered by the warranty and the manufacturer will reject any liability. The user is liable for all injuries to third parties and damage to their property. Operate the unit only in the technical condition as stipulated and delivered by the manufacturer. Arbitrary changes to the unit will exclude the manufacturer from any liability for resulting injury and/or damage.

Improper Use

Any other usage not in keeping with the above mentioned ones may be hazardous and harm persons and/or damage things. Examples of improper use may include, but are not limited to:

- transporting people, children or animals on the machine
- letting yourself be transported by the machine
- using the machine to tow or push loads
- using the machine for leaf or debris collection
- using the machine to loosen gravel, or scarify anything other than grass
- use of the machine by more than one person

Unboxing

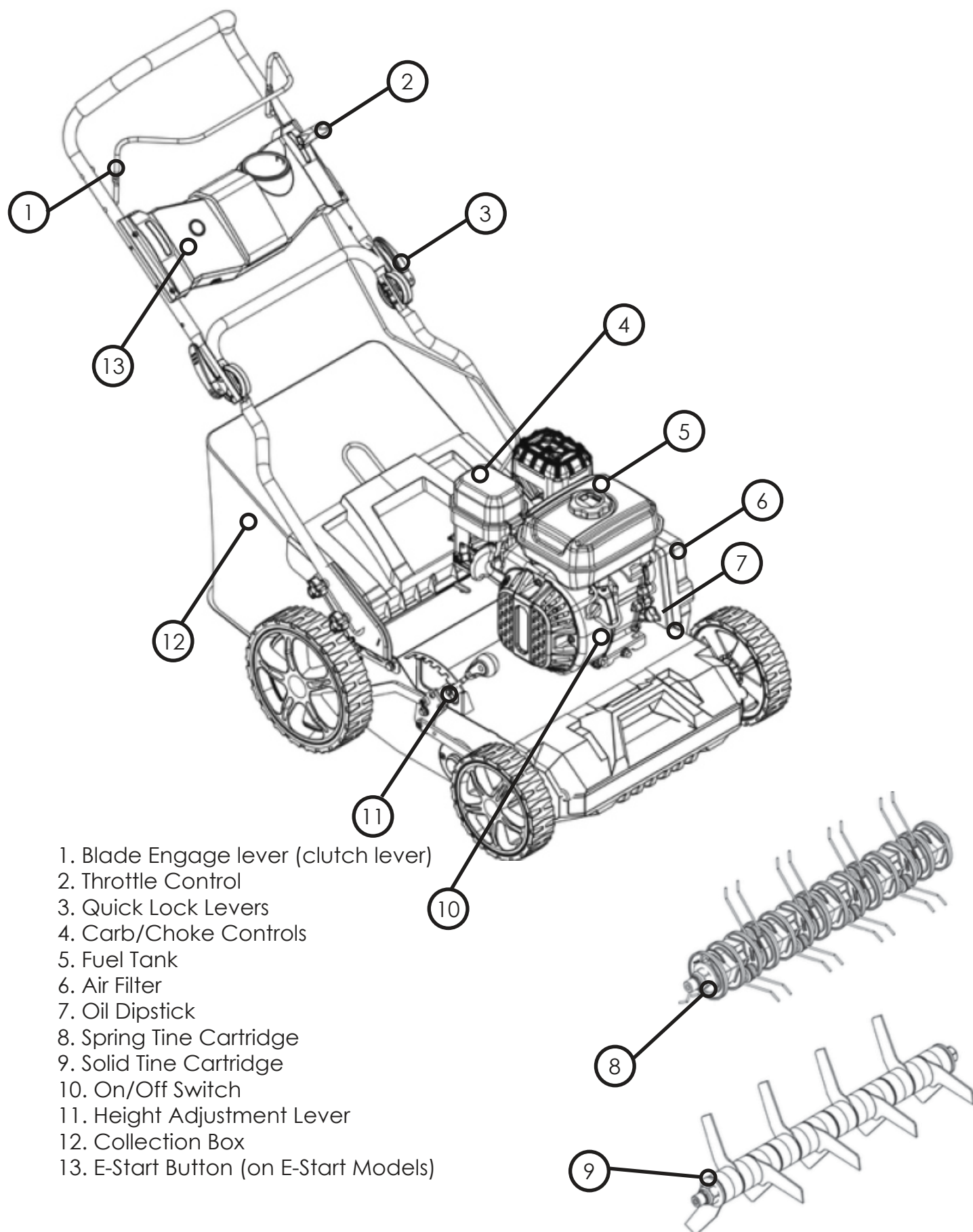
⚠ WARNING : Unboxing and assembling the machine should be done on a flat, surface with enough room. Disposal of the packaging should be done in accordance with the local regulations in force.

⚠ WARNING : Some of the packaging material may be harmful to children. Keep out of reach of children.

1. Carefully remove the product from the packaging and examine it for any sign of damage caused during shipping.
2. Lay the contents out and check them. If any part is damaged or missing, you must not use the machine. Contact Compass Garden Machinery immediately.
3. You must keep the packaging material in case the machine needs to be returned or repaired.
4. Ensure that you have all the accessories and tools you need for assembly and operation including the suitable personal protective equipment.

Features

* NOT TO SCALE



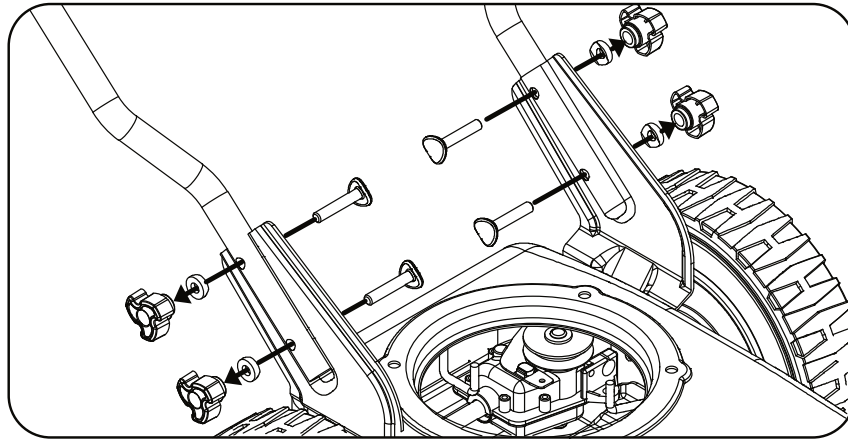
Assembly

Lower Handle Assembly

Step 1 : Line up the lower handles with the corresponding holes of the deck brackets as shown below.

Step 2 : From the inside, place the bolts.

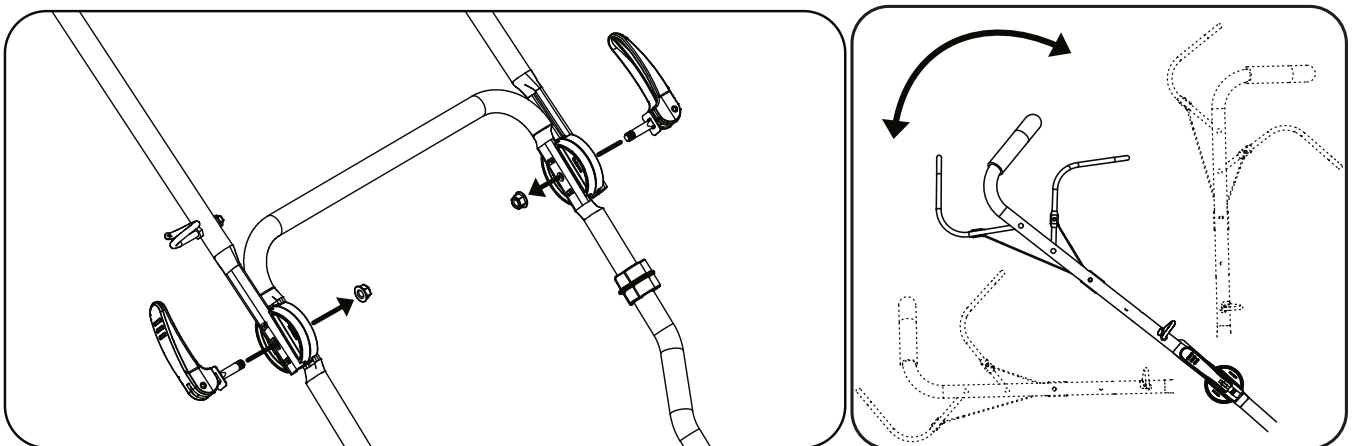
Step 3 : Secure the lower handles with a washer followed by hand nut. Repeat on both sides.



Middle Handle Assembly

Step 1 : Place the Upper handle coupler into the receiving half of the lower handles.

Step 2 : Secure into place using the quick lock hand knobs, place them from the outside and secure with a nut. Repeat on both sides. The Handles can be positioned into multiple heights as seen below.



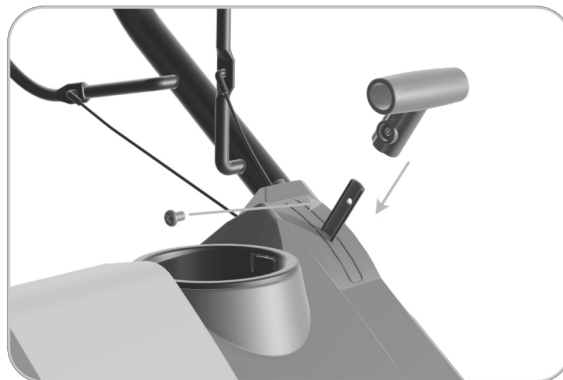
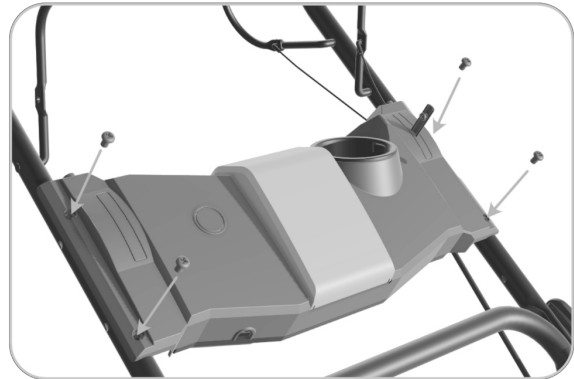
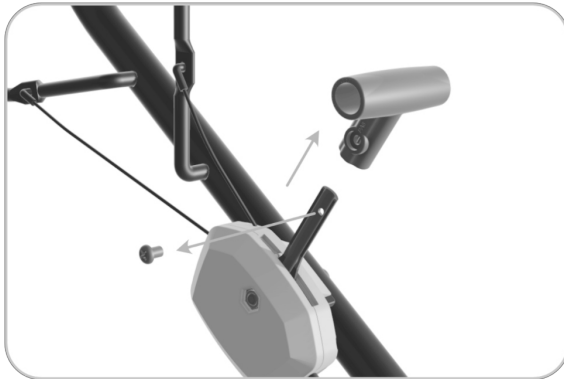
Assembly

Accessory Tray Assembly

Step 1 : Remove the throttle handle by unscrewing its bolt.

Step 2 : Attach the accessory tray to the upper handles. Place the tray into position and secure with 4 bolts.

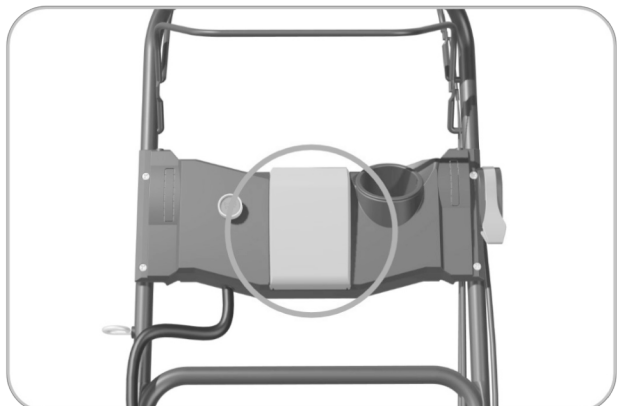
Step 3 : Install the throttle handle back into position and tighten the screw.



Charge the Battery (for E-Start Models)

Step 4 : Connect Battery
Put the 2 battery connection terminals together

Step 5 : Charge Battery
Remove the battery from the cradle and charge it for at least 6 hours

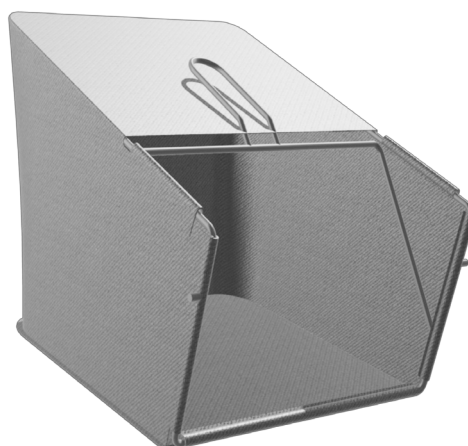
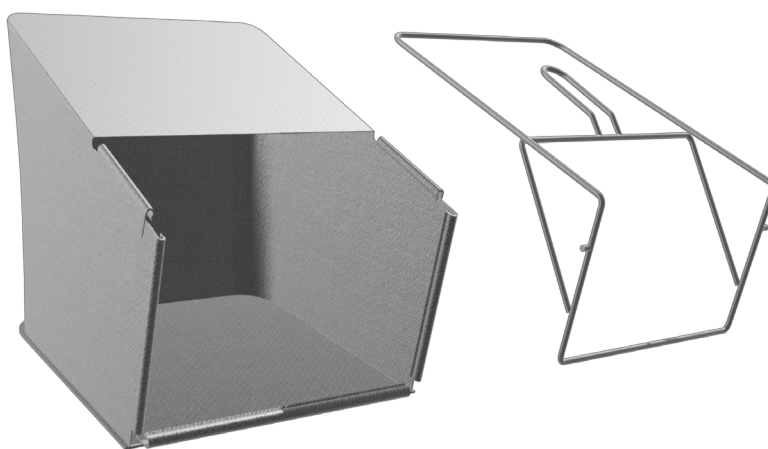


Assembly

Collection box Assembly

Step 1 : Clip the Grass box cover to the bag. Start securing the clips from one side and make your way around to the other

Step 2 : Lift the Rear discharge cover and hook the collection box into place



Assembly

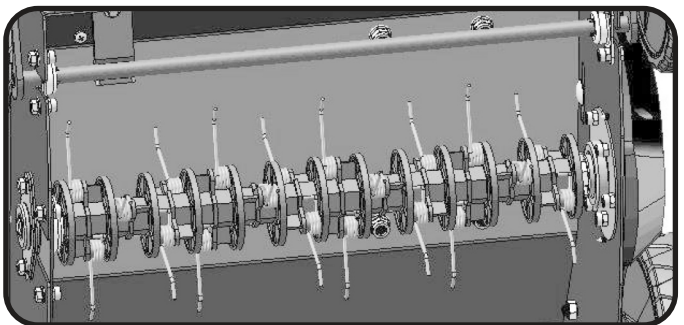
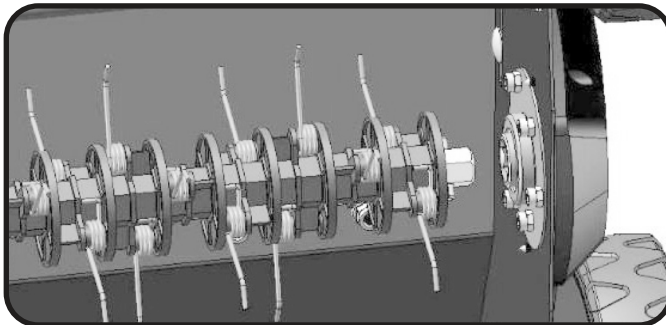
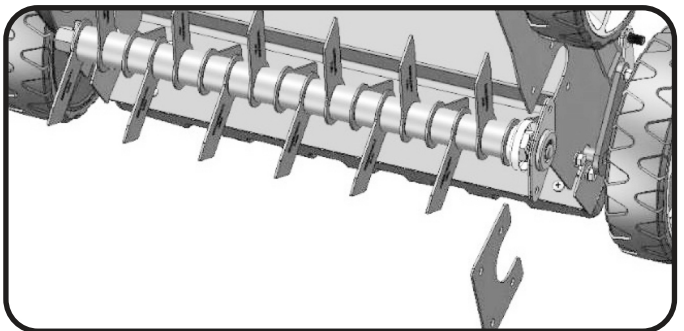
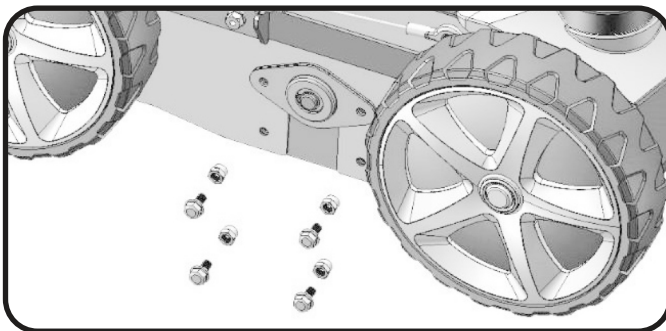
Cartridge Assembly

Undo the 4 bolts on the side of the machine.

Remove the shaft securing bracket and slide the blade out in the direction of the arrow.

To reinstall, slide one end of the blade into the hexagonal locating socket.

Refit the shaft securing bracket and bolt back in to place.



Pre-Operation Checks

Checking Oil Level

⚠ WARNING! THIS MACHINE IS SHIPPED WITHOUT ANY OIL. YOU MUST FILL THE MACHINE WITH OIL BEFORE STARTING IT FOR THE FIRST TIME.

WARNING: The following checks and procedures are essential to prevent any damage and operational damage to your machine. You **MUST** follow them.

Recommended Oil: Always use high quality 10W30 oil, (often termed as 4 Stroke lawn mower oil). Never use additives with recommended oil.
To prolong the life of your engine it is important that the oil is changed after the first 5 hours of use. After this, follow the instructions in the maintenance section of the manual.

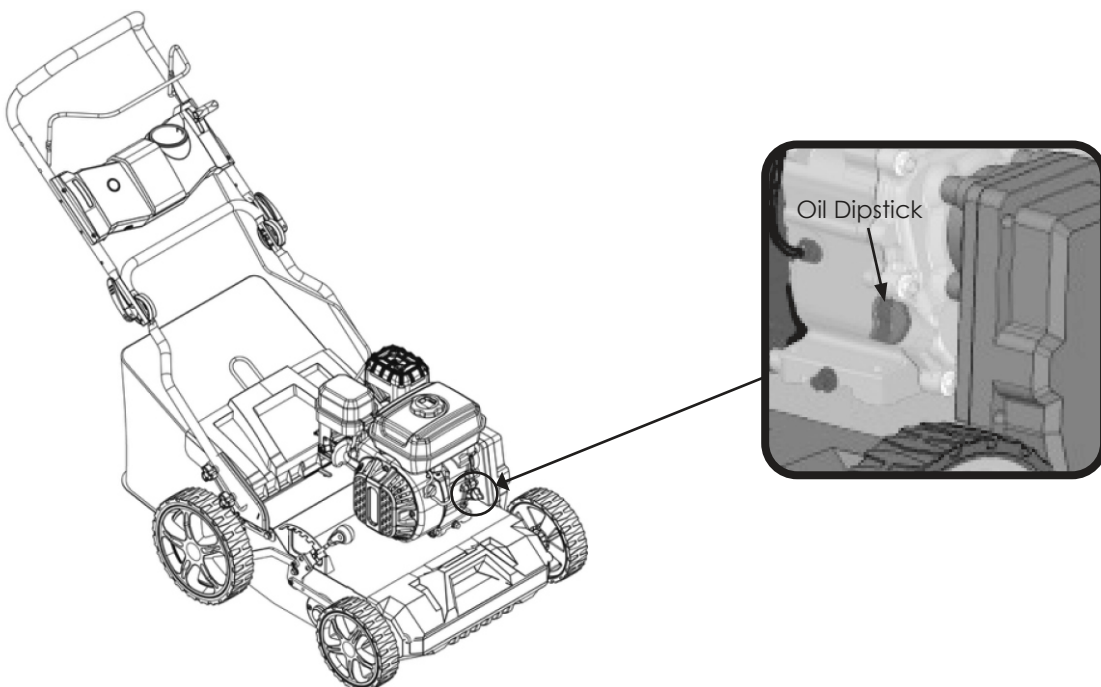
Step 1 : Stop the machine on level ground. If your machine is sat on a slope, you will get inaccurate readings.

Step 2: Remove the oil filler dipstick and wipe the oil from it with a clean cloth.

Step 3: Insert the dipstick into the oil filler neck, but do not turn it in.

Step 4 : Then remove the dipstick and check the oil Level. The oil level must be between the Min and Max marks on the dipstick. If near the lower level, fill to upper level with the recommended oil (10W30).
Do not overfill. Wipe away any spilt oil.)

Step 5 : Align the ribs of the cap with the groove of the filler neck. Then rotate 1/4 turn to secure it.



Pre-Operation Checks

Filling with Fuel

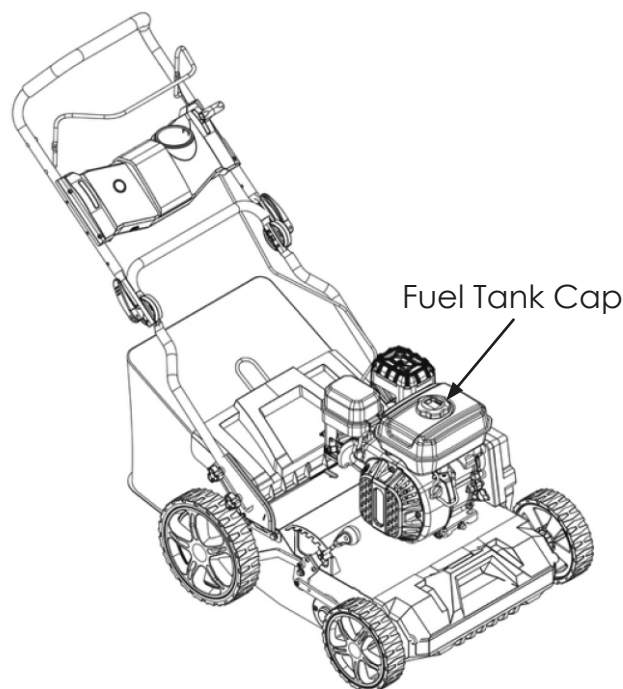
⚠ NOTE: Always use clean, fresh E5 unleaded petrol. Only ever fill with enough fuel which can be used within 30 days. Fuel can go stale over 30 days old which will cause issues with the machines operation.

⚠ WARNING: This is a 4-stroke machine. There is no need to mix oil into the fuel

⚠ WARNING: Petrol is highly flammable and extreme precaution must be taken when handling or working with it.

⚠ WARNING! THIS MACHINE IS SHIPPED WITHOUT ANY OIL. YOU MUST FILL THE MACHINE WITH OIL BEFORE STARTING IT FOR THE FIRST TIME.

1. Clean the area around the petrol filler cap before removing the cap. Remove the warning tag, check the fuel level.
2. Refill the tank if the fuel level is low. (First time starting the machine, the fuel tank will be empty)
3. Refuel carefully to avoid overfilling or spilling fuel. There should be no fuel in the filler neck.
4. Clean up any overflow or splashes of petrol before starting the engine.
5. Tighten the filler cap after filling, finger tight on.



Operation

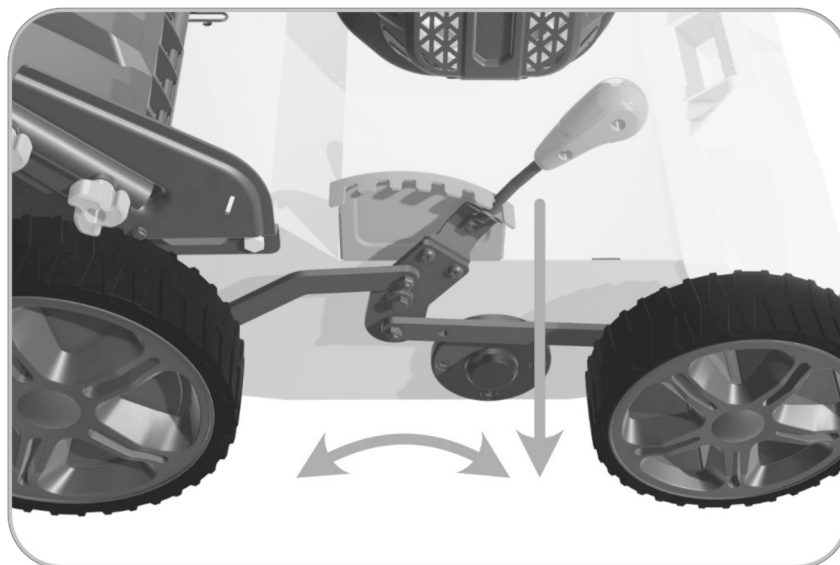
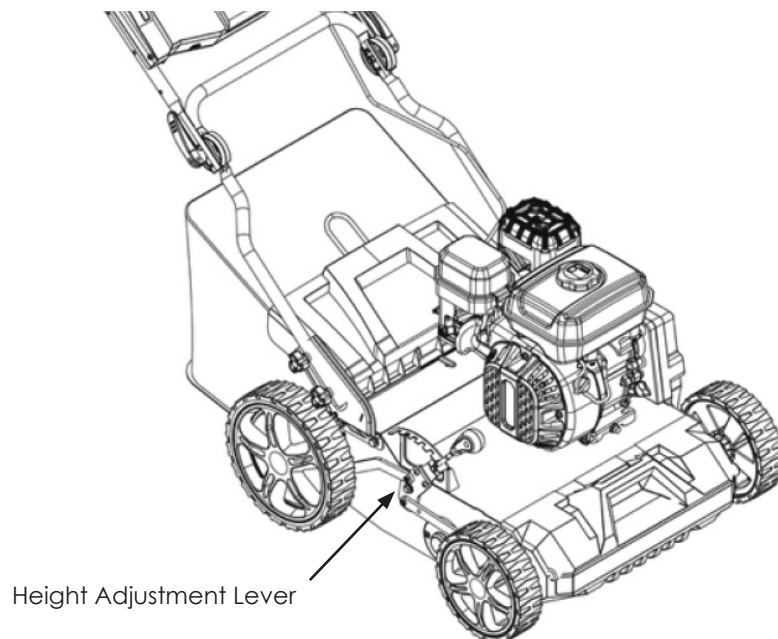
Working Height Adjustment

⚠ WARNING! Only adjust the cutting of the machine when the machine is off, and all moving parts have stopped.

The working height is centrally adjusted with cutting height adjusting handle. Different cutting heights can be selected.

Pull the adjusting handle out and select the desired cutting height. The handle snaps into the desired position.

This machine has 6 cutting heights from 25mm to 75mm



Operation

Starting and Stopping

⚠ WARNING : DO NOT hold the Blade Engage Lever when starting. The Cartridge will rotate as soon as the engine is started and the machine may move unexpectedly

⚠ WARNING: Only operate the machine in well ventilated areas

⚠ WARNING : Keep all body parts and clothing away from the moving parts of the machine. Contact with these parts will cause harm and damage. This also applies to the exhaust and other hot areas of the machine.

⚠ To start the machine, ensure the machine is filled with oil and petrol, and the spark-plug is connected.

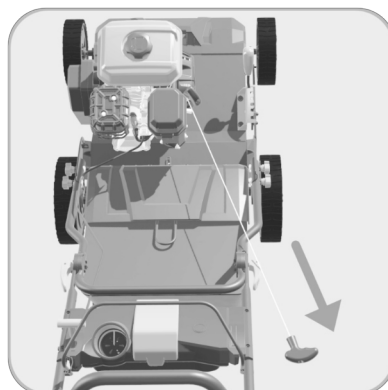
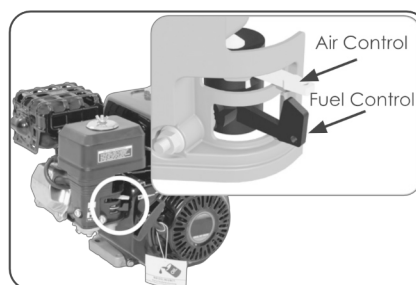
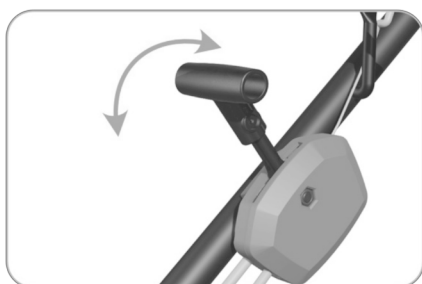
Starting with Recoil

Step 1 : When starting, pull the throttle to the Fast (Rabbit) position. Put the Engine Switch and Fuel Control into the "ON" position and ensure the Air control is in the "CHOKE" position.

Step 2 : Stand behind the machine and place your hand on the recoil starter (pull start on the engine).

Step 3 : Pull the recoil starter approx. 10-15cm until you feel a resistance and then start the Engine with a sharp pull. When the engine starts, place the recoil starter back into it's holder

⚠ NOTE: For a Hot Start or restarting the machine, there is no need for the Air control to be in the CHOKE position



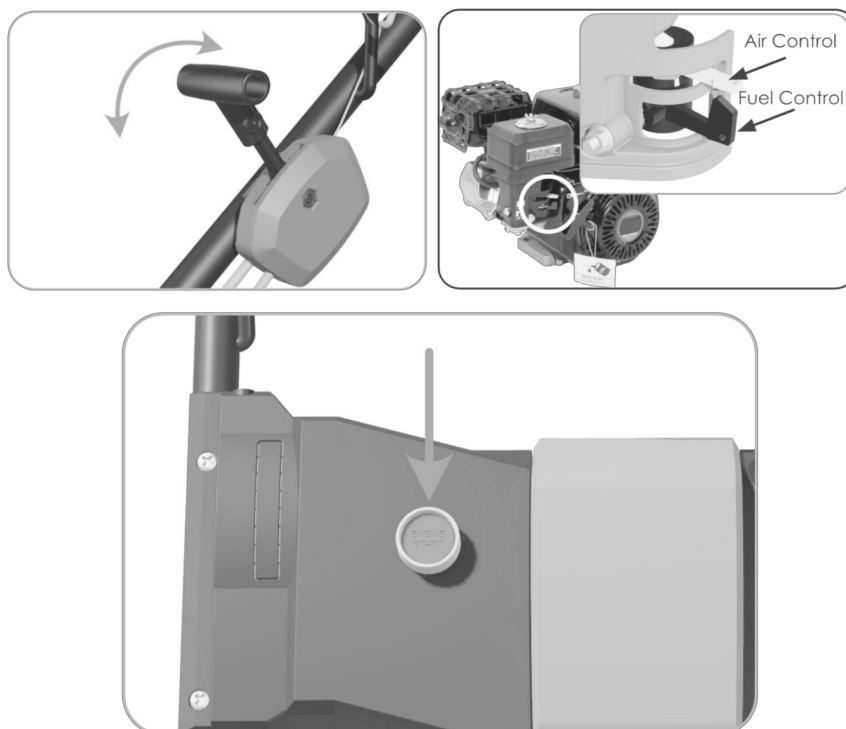
Operation

Starting with E-Start (for E-Start Models)

Step 1 : When starting, pull the throttle to the slow “START” position.

Step 2 : Stand behind the mower . Pull the engine OPC lever toward the upper handle with one hand . Then with the other hand, turn the E-start key.

⚠ NOTE : If the engine fails to start after 10 seconds, repeat the process . Only repeat 3 times. If the machine fails to start try the manual method with the recoil starter.



Stopping

To stop the engine, simply turn the ON/OFF Switch to the OFF position.

Solving a “Flooded Engine”

⚠ NOTE: if the engine won't start after you have Operated the starter several times , the engine may be flooded with excess fuel. Use following procedure to clear and start a flooded engine.

Step 1 : Ensure all moving parts have stopped and the machine has cooled down.

Step 2 : Remove the spark plug from the engine.

Step 3 : Dry and clean the spark plug, and reinstall carefully by hand first. This is to avoid cross-threading the threads.

Lawn Care

What Is Scarification?

- Scarification is the removal of moss, lawn clippings and dead grass blades from the stem of the grass to maintain a healthy growing environment. It is intensive airing of the lawn surface.
- Perfect for revitalising and reviving the most tired and spongiest of lawns.
- It is important to do this because the lawn gradually gets covered which results in a reduced amount of oxygen getting to the grass.
- The lawn will be able to absorb water better and it prevents water logging.
- Ventilation is important so that the lawn can absorb nutrients and it needs air to be able to breathe.

How Does it Work?

Before Scarification

Over time, your lawn collects lawn clippings, moss, etc. These create a seal and do not allow water, air and nutrients into the root of the grass.

During Scarification

Scarification removes moss, lawn clippings, and dead grass blades from the stem of the grass to maintain a healthy growing environment.

After Scarification

After scarification, the lawn will be able to absorb water and oxygen better. It will also absorb nutrients and your lawn will be able to breathe.

Scarification

The Solid Tine steel blades are specially designed to remove moss, thatch and dead grass. During use, the blades penetrate the ground to ensure the lawn absorbs nutrients better.

Aeration

The Spring Tine rake rotates and during aeration, the surface of the ground is scratched. This improves water drainage and the absorption of oxygen.

For best results

For best results, your lawn should be scarified every 4-6 weeks.

We recommend scarifying the lawn in Spring and Autumn.

We recommend aerating the lawn during the entire growing period.

Maintenance & Care

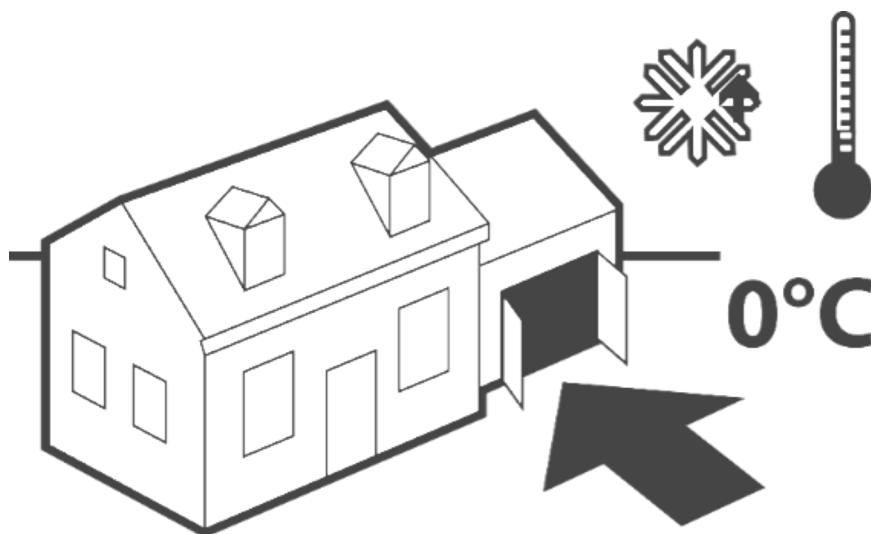
General Maintenance

⚠ WARNING : Turn OFF the machine, allow all moving parts to come to a complete stop, and disconnect the power cord before maintaining the machine. You need to wear proper clothing and protective gloves whenever your hands are at risk.

- Keep all nuts, bolts and screws tight to be sure the machine is in a safe working condition.
- Replace worn or damaged parts for safety. Only use manufacturer-recommended parts and accessories.
- Lubricate the wheels every 100 hours
- Periodically check the wires around the machines for damage and loose connections.
- Always check the brakes of the machines are working correctly
- Regularly examine the batteries, ensure they are clean and dry. (E-Start models only)
- Always charge your batteries fully before use. (E-Start models only)

Storage

- Keep the machine stored in a dry, level area away from damp, moisture and rain fall. Allow the machine to cool down before storing.
- Make sure the machine is clean and dry before storing.
- Ensure the machine is stored in a position, where any persons cannot step on, to attempt to reach items up high, due to risk of movement.
- DO NOT store the machine near an ignition source, such as a wood stove, gas or electric heater, or an appliance or heater with a pilot light.
- Store the machine out of reach of children or anyone who is not familiar with operation.
- DO NOT stack other items on top of the machine when in storage.
- Make sure the machine is stored away from direct sunlight. Store indoors or in a safe, frost-free area during severe weather and winter months.



Maintenance & Care

Maintenance Schedule

Performing routine maintenance correctly on your machine will ensure you get years of trouble free use. Please keep this manual safe for future reference.

It is recommended that the following maintenance schedule is adhered to. This will ensure the machines operated correctly and is safe to use.

Item	Type of Check	Before Each Use	First Month/ First 5 hrs	3 Months or 25 hrs	6 Months or 50 hrs	Every Year or 100 hrs	Every 2 Years/250 hrs
Engine Oil	Check	•					
	Replace		•	•			
Air Filter	Check		•				
	Replace			•			
Spark Plug	Check					•	
	Replace						•
Fuel Tank and Filter	Check			•			
	Replace						
Fuel Tubes	Check/ Replace if re- quired						•

Long Term Storage

If storing the machine for a period of 30 days or more, you must follow proper storage and winterisation guidelines to avoid any possible issues with the machine. Incorrect storage can lead to possible fueling or engine issues that will not be covered by the warranty.

Allow the engine to fully cool down.

1. Drain all the fuel from the fuel tank and then run the machine until it has completely run out of fuel to clear the remaining fuel from the fuel lines and carburettor.
 2. Drain the oil from the engine.
 3. Follow the cleaning instructions in the 'Cleaning' section.
 4. Follow the maintenance section and check, service or replace serviceable items if required. Visually inspect the machine and replace or repair any worn parts. Check the blade and sharpen or replace if necessary.
 5. Lubricate all moving parts with light spray oil such as WD40.
 6. Refill engine oil with new 10W30 engine oil, fill to the upper mark on the dip-stick.
 7. Remove the spark plug and pour 1 teaspoon of fresh engine oil down the cylinder bore. Cover the spark plug hole with a lint-free clean cloth, ensuring no dirt or debris falls into the cylinder chamber and gently pull the recoil starter handle to coat the cylinder bore with the fresh oil.
- Refit the spark plug.

Preparation to re-use after storage

1. Check oil level before using.
2. Check spark plug is inserted correctly.
3. Fill engine with fresh unleaded petrol that has not been stored for periods of more than 30 days.

Maintenance & Care

Cleaning the Cartridge

⚠ WARNING : Fuel may leak from the machine whilst performing this maintenance. To avoid this completely, drain the machine of all fuel.

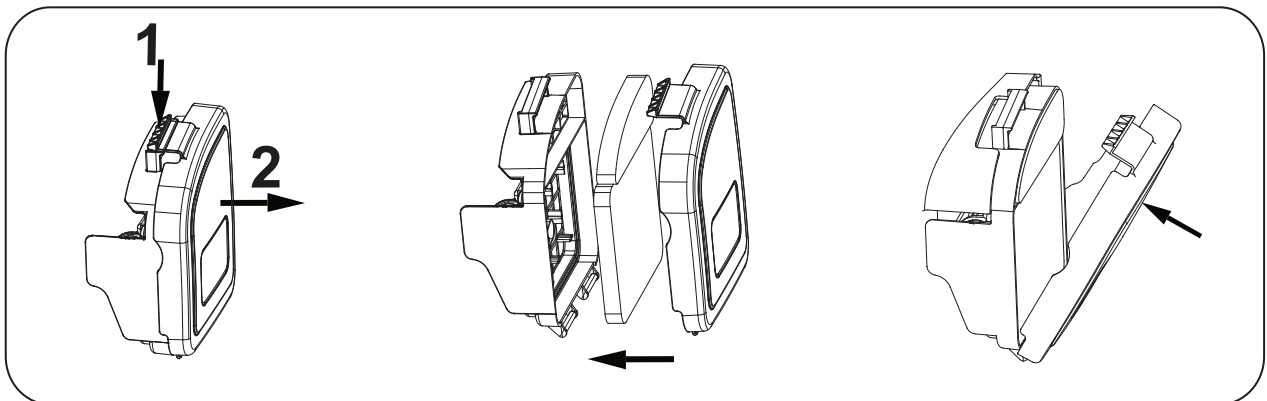
- Starting from the rear of the machine, turn the machine onto its right hand side.
- Start by removing all obvious large clumps of grass stuck to the edges of the machine deck and cartridge
- Using water at normal hosepipe pressure, you can rinse all hard to reach areas on the underside of the machine.

Air Filter Maintenance

⚠ WARNING!: Never operate the machine without an air filter. Operating without one can cause small particles and debris to be ingested into the engine can possibly cause damage.

1. Remove the air cleaner outside cover. Be careful to prevent dirt and debris from falling into the air cleaner assembly.
2. Separate the Air Filter from the Air Filter Housing.
3. Inspect the air filter. Clean dirty air filter with warm water and mild soap. Allow air filter to dry thoroughly before re-installation
4. Install the air filter assembly onto the carburetor and secure with screw.

Note: Do not use pressurized air or solvents to clean the filter. Pressurized air can damage the filter and solvents will dissolve the filter.



Changing Engine Oil

Tilt the machine towards the oil filler , have a container ready to catch the oil and remove the dipstick.
once the oil has been emptied , replace the dipstick and wipe clean any spillages.

Refill with 400ml 10W30 oil.

When the dipstick is inserted back (without turning back in), the oil level must be between the min and max marks on the dipstick.

Start the engine and allow it to run briefly.

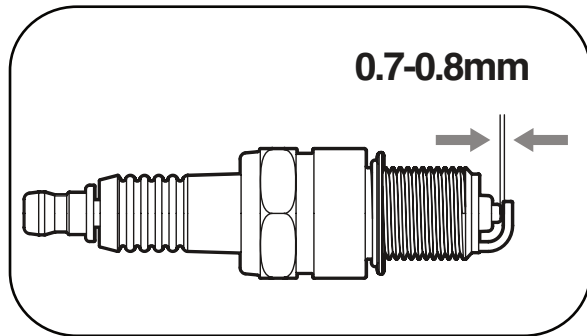
Stop the engine , wait one minute and check the oil level. top up if necessary.

Maintenance & Care

Spark Plug Maintenance

For good performance, the spark plug must be properly gapped and free of deposits. You **MUST** allow the engine to cool down before carrying out any maintenance.

1. Always use the correct spark plug.
2. To check the spark plug, remove the spark plug HT lead cap and remove the spark plug with the spark plug wrench.
3. Remove spark plug using the supplied spark plug wrench.
4. Clean the spark plug electrode with a soft wire brush, making sure there is no damage to the insulator or electrode.
5. The spark plug gap should be 0.70mm to 0.80mm. Check the gap by using a feeler gauge.



Troubleshooting

! Faults which cannot be rectified with the aid of following table may be rectified by qualified technicians (contact our customer service team to arrange). Please be aware that any improper repairs will also invalidate the warranty and additional costs may be incurred.

Use only genuine spare parts. Only these spare parts are designed and suitable for the product. The use of other spare parts not only voids the warranty, you can also endanger yourself and your environment.

Symptom(s)	Possible Cause(s)	Corrective Action(s)
ENGINE WILL NOT START	Out of fuel.	Refuel
	Bad fuel:	Drain Fuel and Refuel
	Spark plug faulty, fouled, or improperly gapped.	Replace the spark plug.
	Spark plug wet with fuel (flooded engine).	Dry and reinstall spark plug.
	Fuel filter clogged, carburettor malfunction, ignition malfunction, valves stuck, etc.	Replace or repair faulty components as necessary.
ENGINE LACKS POWER	Air cleaner elements clogged.	Clean or replace air cleaner elements
	Bad fuel: engine stored without treating or draining gasoline, or refuelled with bad gasoline.	Drain the fuel tank and carburettor. Refuel with fresh gasoline.
	Fuel filter clogged, carburettor malfunction, ignition malfunction, valves stuck, etc.	Replace or repair faulty components as necessary.

Contact

Need Help? Talk To Our Experts

Our friendly aftersales team will be more than happy to help you



Phone

Call our team on: 01767 235098



Email: sales@compassgm.co.uk



Address:

Compass Garden Machinery, 60 Sunderland Road, Sandy,
Bedfordshire, SG19 1QY

Recycling & Disposal

WEEE Information



We do not offer a takeback scheme for the recovery of Waste Electrical Electronic Equipment (WEEE) & Batteries. Instead the responsibility to dispose of WEEE and/or Batteries is passed onto you by us.

So when it becomes necessary to dispose of your machine you must take it to your local Civic Amenity Site. For further information please contact your local Authority for disposal advice.

You MUST make sure that all unused oil and fuel is disposed of correctly either beforehand or at your local Civic Amenity Site.

- Under NO circumstances must any fuel or oil be put down any drains.
- Certain products contain WEEE waste which should not be disposed of in your domestic waste.
- You MUST recycle WEEE in accordance with your local authority or recycling centre.
- Certain products contain batteries which should not be disposed of in your domestic waste.
- You MUST recycle batteries in accordance with your local authority or recycling centre.
- Unwanted packaging and materials should be stored and taken to a recycling centre so it can be disposed of in a manner which is compatible with the environment.

Should you pass this product on to another user either sold or loaned, you MUST pass on this user manual. This will make sure that all other users can use and maintain this machine safely.

Environmental Protection

1. Environmental protection should be a priority of considerable importance when using the machine, for the benefit of both social coexistence and the environment in which we live. Try not to cause any disturbance to the surrounding area.
2. You must comply with local regulations and provisions for the disposal of packaging, oils, petrol, filters, damaged parts or any elements which have a strong impact on the environment. This waste must not be disposed of as normal waste. It needs to be separated and taken to specified waste disposal centres where the material will be recycled.
3. You must comply with local regulations for the disposal of waste materials after mowing.
4. When disposing, do not pollute the environment with the machine, but hand it over to a disposal centre, in accordance with the local laws in force.

Technical Data

Specification Table

Model	TG45SC / TG45SC-E
Start Method	Recoil with Auto Choke / E-Start (TG45SC-E)
Propulsion	Hand Push
Working Width (mm)	440
Working Height Min (mm)	-15
Working Height Max (mm)	12
Cutting Positions	6
Cut Options	Rear Bagging, Rear Discharge
Catcher Volume (L)	45
Catcher Type	Polyester Bag
Handle Type	Soft Grip
Safety Features	Operator Presence Control
Deck Material	Steel
Quick Clean Hose Connector	No
Engine Model	MF170FA-1
Engine Type	4-Stroke OHV Single Cylinder
Engine Size (cc)	223
Fuel	Unleaded Petrol
Fuel Capacity (L)	3.6
Engine Oil	10W-30
Engine Oil Capacity (ml)	600
Gross Weight (kg)	45
Net Weight (kg)	41
Wheel Diameter (mm)	Front: 203, Rear: 254
Fully Assembled Dimensions (H x W x L) (mm)	1270*640*1050
Package Dimensions (H x W x L) (mm)	740*650*520
Fuel/Power Source	Petrol
Guaranteed Sound Level LWA (dB(A))	99
Uncertainty K _{WA} (dB(A))	2.37
Vibration Level values (m/s ²)	Left handle: 2,561 m/s ² , Right handle: 2,496 m/s ²
Uncertainty K (m/s ²)	1.5 m/s ²

Declaration of Conformity

Importer and Authorised Representative

Compass Garden Machinery
60 Sunderland Road, Sandy, Bedfordshire, SG19 1QY, UK
Country of Origin: China
Description: 440mm TG45SC / TG45SC-E PETROL SCARIFIER
SKU Code: TG45SC / TG45SC-E

Regulations and Directives of Compliance

- 2014/30/EU The Electromagnetic Compatibility Directive
- 2006/42/EC The Machinery Directive
- 2000/14/EC Noise emission in the environment by equipment for use outdoors
- 2011/65/EU The Restriction of Hazardous Substances Directive
- 1907/2006 REACH EC No 1907/2006 - SVHC
- 1907/2006 REACH Regulation (EC) No 1907/2006 Annex XVII
- Regulation (EU) 2016/1628 gaseous and particulate pollutant emission limits for internal combustion engines.
- 2023/1542 (EU) Battery Regulation

And is in conformity with the applicable requirements of the following documents:

EN ISO 14982:2009	EN 60335-2-29
EN ISO 5395-1:2013+A1:2018	EN IEC 55014-1
EN ISO 5395-2:2013+A1:2016+A2:2017	EN IEC 55014-2
BS 1363-1	EN IEC 61000-3-2
IEC 62133-2:2017	EN 61000-3-3
EN 60335-1	

Statement of Declaration

We the importer and authorised representative of the product described confirm conformity within the provisions of applicable regulations and directives listed within this document.

Signed on Behalf of Compass and Spectre Ltd

Identification of Manufacturer:

Compass Garden Machinery, 60 Sunderland Road, Sandy, Bedfordshire, SG19 1QY, UK

Place of Issue: Compass Garden Machinery

Signatory Name: Andrew Gunn

Position: Managing Director



Product Record

Information

As soon as you have purchased the machine, we recommend that you fill out the following. If you need to contact an authorised dealer or customer service for information on servicing, you may need to provide the following information.

Date of Purchase:.....

Dealer Name:.....

Dealer Phone:.....

Model Number:.....

Serial/Batch Number:.....

Notes

[illegible]

Notes

[illegible]

