

## Lawn Scarifier

 **TRACMASTER**  
*The landscape machinery specialists*

**AUTHORISED  
DEALER**



The CAMON LS42 Lawn Scarifier has been designed by Tracmaster for removing the dead thatch and moss from lawns and other grassed areas.

The benefit of scarifying a lawn is that it allows air, water and nutrients to reach the roots of the grass whilst removing unwanted dead and foreign material.

### Starting the Lawn Scarifier

This machine is operated by lifting the lever located underneath the top of the handlebar.

It is a two-stage process.

1. Press the grey lever locking catch.
2. Press the black operating lever.

The black lever increases the engine speed to a level that will engage the centrifugal clutch fitted to the engine drive shaft.

Once the clutch has been engaged it will transfer the engine power to the rotor shaft that will rotate at high speeds within the chassis of the Scarifier.

### Height Adjustment

The height of the blades of the lawn Scarifier is altered using the two large knobs at the front of the machine.

The top knob is connected to the centre of the front axle via a threaded rod. Rotating the knob in each direction will raise or lower the front axle in relation to the main chassis of the machine and in turn alter the height of the blades with the chassis.

The second knob located below the top knob on the threaded rod is used to fix the position of the threaded rod and consequently the height of the blades relative to the front axle.

## Collection Bag

The collection bag will collect the thatch and moss that is removed from a grass area. Use the central lifting handle when connecting or disconnecting the bag from the machine.

Always stop the engine and wait for the blades to stop rotating before removing or replacing the collection bag.

To attach the collection bag onto the machine, first lift the safety back flap on the rear of the machine chassis with one hand. Then whilst holding the bag with your other hand guide the two small metal rods protruding from either side of the collection bag frame into the two channels that have been formed to hold the bag.

## Rotor Shaft

The main rotor shaft holds three rods with each rod holding 10 hardened steel blades. The blades are separated using spacers and springs. Each set of 10 blades on a rod is offset from the other two rods.

## General Safety Instructions

- Never allow people unfamiliar with these instructions or children to use the machine.
- Never operate the machine while people, especially children, or pets are nearby.
- Users should take care to prevent accidents to themselves or other people and damage to property.
- Wear ear protection and safety glasses at all times while using the machine.
- While using the machine always wear substantial footwear and long trousers. Do not operate the machine when barefoot or wearing open sandals.
- Visually check the machine for operational safety, complete components, and fixed guarding before each use.
- Read and be aware of the warning and instruction signs located on the machinery.
- Cordon off the work area to prevent access from the public.
- Before starting work clear the area of any objects that may cause damage to the machine such as stones, sticks, wires, bones and other foreign objects.

**WARNING – Petrol is highly flammable.**

- 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 tanks and container caps securely.
- Do not operate the machine if you are under the influence of alcohol or drugs. This equipment must only be operated by persons who are medically fit both physically and mentally.
- Only work in good light and visibility.
- Before using the machine, always visually inspect to see that the tines, bolts are not worn or damaged.
- Operator clothing should not be loose, and footwear should offer good grip. Know how to stop the machine in an emergency.

## Engine Safety Instructions

- Always ensure the engine is turned off and fuel tap is turned off when transporting the machine, cleaning the machine, and making adjustments.
- Always start the engine in the open air. Starting an engine within a confined space can lead to the inhalation of toxic substances.
- Do not smoke or use a naked flame when refuelling.
- Only use unleaded petrol from fuel containers designed for this purpose. Refuel outdoors only and replace the fuel tank cap securely.
- Do not mix oil with the fuel.
- Leave one inch of space in the fuel tank during refilling.

WARNING – Petrol is highly flammable.

- Store fuel in containers specifically designed for the 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 tanks and container caps securely.
- Avoid contact with the engine during operation as it will become hot. Leave the engine to cool prior to contact.
- Never interfere with the control settings of the engine.

**NEVER TILT THE MACHINE BACKWARDS WHEN CLEANING.**

## Starting the Engine

1. Pull the engine recoil handle slowly until it engages then pull hard and fast to start the engine.
2. After the start, guide the cord back into its position. Do not let it snap back.
3. Once the engine has started, if the choke lever has been used, return this to its OFF position after the engine has run for a few seconds.

## Stopping the Engine

1. Release the operating lever.
2. Switch the engine ON/OFF switch to the 'O' off position.
3. Turn the fuel tap lever to the OFF position.
4. Ensure the blades have stopped rotating prior to moving the machine.

## PPE

We recommend the following PPE when using the lawn scarifier

- Ear Defenders
- Gloves
- Protective Footwear
- Safety Glasses

## Preparation of the Grass Area

- Before scarifying can be carried out the grass must be cut short and be cleared of any objects such as stones, sticks, wires or bones that would damage the machine or be picked up and thrown by the rotating blades.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.

### WARNING:

- Using this machine on long grass will damage the machine. We recommend cutting the grass before using the lawn scarifier
- Do not operate the Scarifier on wet lawns or in rainy weather.

## Safety When Using the Lawn Scarifier

1. Always be sure of footing on slopes.
2. Walk never run.
3. Always work across the face of slopes, never up and down.
4. Exercise extreme caution when changing direction on slopes.
5. Use extreme caution when reversing or pulling the machine towards you.
6. Stop the tines if the machine has to be tilted for transportation. Do not operate the tines when crossing surfaces other than grass and when transporting the machine to and from the working area.
7. Never operate the machine with defective guards, or without safety devices, for example deflectors and or catchers in place.
8. Do not change the engine governor settings or over speed the engine.
9. Disengage all tine starting levers before starting the engine.
10. Start the engine carefully according to the instructions and with feet well away from the tines.
11. Do not tilt the machine when starting the engine.
12. Do not put hands or feet near or under the rotating parts. Keep clear of the discharge opening at all times.
13. Never pick up or carry the machine whilst the engine is running.
14. Avoid operating the machine in bad weather conditions especially if there is the risk of lightning.
15. Set the operating height by screwing the top adjuster knob either up or down and locking the desired height with the locking handle.

**WARNING:**

**THE BLADES MUST NOT BE ALLOWED TO TOUCH THE GROUND AT ANY POINT DURING OPERATION.**

- If using the collection bag, ensure that it is mounted correctly and is secure.
- Lift the operating lever to engage the rotor shaft and walk at a slow steady pace pushing the machine ahead of you.
- To turn the LS42 Scarifier 180 degrees, release the operating lever, put light downwards pressure on the handlebars and rotate the machine on its rear wheels.
- Do not work the Scarifier on slopes of more than 20 degrees and always work across the slope, not up and down it.
- Once the collection bag has become full, release the operating lever, turn off the engine and ensure the rotor shaft has stopped turning. Remove the collection bag and empty. Reattach the bag securely and re-start the engine to continue scarifying.

**Stop the engine and disconnect the spark plug wire before:**

1. Clearing blockages
2. Checking, cleaning, or working on the machine
3. After striking a foreign object
4. If the machine starts to vibrate abnormally.

**Stop the engine and disconnect the spark plug wire.**

1. Whenever you leave the machine
2. Before refuelling

Reduce the throttle setting during engine shut down and turn the fuel off on the engine at the conclusion of scarifying.

**Procedure for Unexpected Shut Down**

1. Release the operating lever.
2. Turn the engine operating switch located on the engine to the OFF position.
3. Ensure the rotor shaft and blades have stopped rotating prior to moving the machine.

**How to Clear Unwanted Debris from the Underside of the Machine**

1. Ensure that the engine has been turned off, remove the spark plug wire and the rotor shaft has stopped turning.
2. Turn the engine fuel tap to the off position.
3. Attach a lifting hoist to the top handlebar and lift the machine so that it tilts forward onto its front wheels. As the underneath of the chassis becomes exposed it is possible to see and remove any unwanted debris.

**WARNING:**

**ALWAYS TILT THE LAWN SCARIFIER FORWARDS TO AVOID OIL IN THE ENGINE FLOODING INTO AREAS WHERE IT WILL CAUSE DAMAGE.**

**Residual Risks of the Lawn Scarifier**

The rotor shaft will continue to rotate for a couple of seconds once the operating lever has been released. Ensure that the blades have stopped rotating prior to moving or tilting the machine.

This machine has been designed to be pushed by the operator both during transportation and operation. It has no brake system and therefore the operator must hold firmly onto the machine on sloped areas.