

Spectrum Lawnmower Instruction Manual



SPECTRUM

Lawnmowers

Models TG46S / TG46SE / TG51PD / TG51SE / TG56SE

Illustration may vary to the product purchased

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1. Description of Symbols

Symbols are used in this manual to attract your attention to possible risks. The safety symbols and the explications which accompany them must be perfectly understood. The warning themselves do not prevent the risks and cannot be a substitute for proper methods of avoiding accidents.



This symbol, before a safety comment, indicates a precaution, a warning or a danger. Ignoring this warning can lead to an accident for yourself or for others. To limit the risk of injury, fire or electrocution always applies the recommendations indicated.



Before any use, refer to the corresponding paragraph in the present manual.



Conforms to relevant safety standards.



Keep other people out of the dangerous area.



Remove the spark plug cap prior to all maintenance work and read the instructions for use.



Take care when handling fuel and lubricants!



Wear hearing protection and eye protection when using the device.



Do not attempt to clear grass from the rear chute area whilst the blade is still rotating. The exhaust and other parts of the engine will get very hot during use, do not touch.



The lawnmower exhaust gases contain poisonous substances. Do not run the engine in closed or poorly ventilated areas.



Wear robust footwear when using the machine.



Wear protective gloves when using the machine.

2. Safety Instructions

2.1. Training

- 1) Read the instructions carefully. Ensure you understand the controls and how to use the mower correctly.
- 2) Do not let children use this product. Do not use this product if you are unfamiliar with the instructions. Local laws may restrict the age of the user.
- 3) Never mow in the presence of people, especially children or pets who may be nearby.
- 4) Operators must be properly trained in the use, adjustment and operation of the machine, including prohibited operations.

2.2. Preparation

- 1) While mowing, always use suitable safety equipment, including substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- 2) Thoroughly inspect the area where the equipment is to be used and

remove all objects which can be thrown by the machine. Impact damage caused by hitting foreign objects is not covered by warranty.

3) WARNING:

- Petrol is highly flammable. Never refuel in the presence of any naked flame or source of ignition.
 - 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 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 tank and container caps securely.
- 4) Replace faulty exhausts.
 - 5) 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.
 - 6) On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.

2.3. Operation

- 1) Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- 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.
- 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.

- 9) Use extreme caution when reversing or pulling the lawnmower towards yourself.
- 10) Stop the blade(s) if the lawnmower must be tilted for transportation when crossing surfaces other than grass, and when transporting the lawnmower to and from the area to be mowed.
- 11) Never operate the lawnmower with defective guards, or without safety devices, for example deflectors and/or grass collector in place.
- 12) Do not change the engine governor settings or over speed the engine.
- 13) Disengage all blades and drive clutches before starting the engine.
- 14) Start the engine carefully according to instructions, with feet well away from the blade(s).
- 15) Do not tilt the lawnmower when starting the engine or switching on the engine.
- 16) Do not start the engine when standing in front of the discharge chute.
- 17) Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- 18) Never pick up or carry a lawnmower while the engine is running.
- 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:
 - 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).
- 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:
 - Whenever you leave the lawnmower.
 - Before refueling.
- 21) Reduce the throttle setting during engine shut down and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of mowing.
- 22) Go slow when using a trailing seat.

2.4. 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 fumes can reach an open flame or spark.
- 3) Allow the engine to cool before storing in any enclosure.
- 4) To reduce the fire hazard, keep the engine, exhaust, battery compartment and petrol storage area free of grass, leaves, or excessive grease.
- 5) Check the grass catcher frequently for wear or deterioration.
- 6) Replace worn or damaged parts for safety.
- 7) If the fuel tank must be drained, this should be done outdoors.
- 8) Always check engine oil level prior to use. Do not operate the machine if the oil level is low. Always use premium grade lawnmower oil, 5W30, 10W30, 10W40.
- 9) Always use clean, fresh unleaded premium petrol. Please note modern fuels are not tolerant for long periods of storage and we recommend not using fuel that is more than 1 month old.
- 10) Make sure you are using clean fuel can intended for this purpose.
- 11) Frequently check the air filter to ensure it is clean and free of debris. Replace or clean as required.



Accessories box:
Spark Plug Spanner: 1 set.



3. Component List –

1	Drive Bail Arm	9	Spark Plug Cap & Spark Plug
2	Safety Bail Arm	10	Side Cover
3	Lower Handle	11	Side Discharge Chute
4	Wing Nut	12	Oil Filler Cap

5	Grass Collector Cover and Safety Flap	13	Chassis
6	Recoil Starter Handle	14	Height Adjustment Handle
7	Petrol Tank Cap	15	Grass Collector
8	Air Filter & Casing	16	Upper Handle

4. Intended use



**This lawn mower has been designed for cutting grass.
Any other use is not permitted.**

The lawn mower is suitable for private / domestic use. Lawn mowers for domestic use are those which are used for cutting grass and lawns in the garden, however not for cutting grass in public parks, playing fields or on farms or in forest.



Non-permitted users:

Persons who are not familiar with the operating manual, children, young people under the age of 16 as well as persons under the influence of alcohol, drugs or medication must not operate the unit.



Working hours for gasoline lawn mower:

While it is permitted to use a lawn mower at any time, operators should always show due consideration to others living nearby.

5. Assembly

When assembling this machine, please follow the instructions.

- 1) Fit the lower handle on the machine with the four bolts as per the picture below. First, take the bolts and nuts from the tool bag, and then fit the lower handles on the brackets. LAST, ensure you evenly tighten all the nuts and bolts. Note, you should check these nuts and bolts periodically for tightness. The bolts should be fixed as below photo and on both sides.



- 2) The connection cable to the handle is already pre-assembled.
- 3) Fit the Upper handles to lower handles. Release two wing nuts on lower handle, as below picture, and then fit the upper handle on lower handle. Ensure the wing nuts are tightened enough.



- 4) There are 7 working positions for each wheel, adjust the handle according to below picture. This level adjusts the height of cut for the whole lawnmower.



- 5) Slide the grass bag frame into the grass bag, clip and attach as shown.



- 6) The mulching plug helps to keep the curve inside of the mower deck for more efficient mulching. Install and remove the mulching plug by raising the rear discharge guard as shown. The mulching plug only fits one way. Remove the mulching plug when using a grass bag.



- 7) Lift the side discharge guard, install the side discharge cover.



8) Electric start model:



- Loosen the nut on the upper handle and buckle the control panel.
- Install control panel with the bolts and nuts and provided.
- Connect the engine cable and battery.
- Taking out the battery from the panel and charge it for 6 hours before use.

6. Use, Maintenance and Precautions

6.1. Fueling



DANGER!

Danger of injury!

Fuel is explosive!

Turn off and cool the engine down before filling the tank with fuel.

You must observe all safety instructions relating to handling fuel.



CAUTION!

Risk of device damage!

The engine is delivered without fuel.

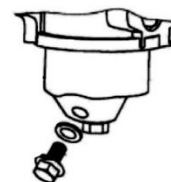
Before operating, you must fill it with proper fuel and oil – See Maintenance 2.4

- 1) Remove the filler cap.
- 2) Add fuel. Do not overfill. Wipe up any spillages before starting the engine.
- 3) Tighten the fuel tank cap.



6.2. Draining Fuel

- 1) Hold a collection container beneath the fuel drain bolt.
- 2) Allow the fuel to run out completely.
- 3) Once drained, replace the drain bolt. **DO NOT** overtighten.



6.3. Filling Engine Oil

- 1) Only use premium engine oil – see Maintenance 2.4
- 2) Remove oil filler cap. Add the oil properly.
- 3) Check the oil level. The oil level must be between the ADD and FULL marks on the dipstick. If near the lower level, fill to upper level.
- 4) Tighten the oil cap again.
- 5) **IMPORTANT** Check oil levels before each use.



6.4. Draining Engine Oil

- 1) Always drain the fuel prior to draining the oil. Wipe the oil filler area clean, then remove the oil filler cap/dipstick.
- 2) Place a suitable container next to the mower to catch the used oil, then tilt the mower on its right side. The used oil will drain through the filler neck. Allow the oil to drain completely.
- 3) Please dispose of used engine oil and the container in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the rubbish, pour it on the ground, or pour it down a drain.

Do not start the unit until it has been completely assembled.

Before powering on the unit, always check the oil.



DANGER!

Danger of injury!

Do not operate the machine if there are any faults. If a part has become defective, make sure to replace it before using again.

Check the safe conditions of the machine:

- 1) Check the machine for fuel or oil leaks.
- 2) Check the machine for visual defects.
- 3) Check that all parts of the machine have been securely fitted / tightened.
- 4) Check that all safety devices are in proper condition.



DANGER!

Danger of injury!

Before starting work, always check the ground and remove all objects which could be thrown by the machine.

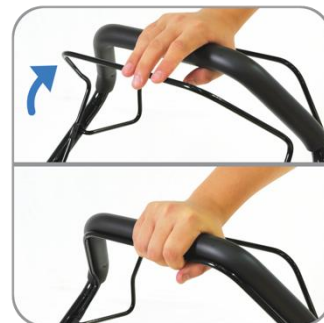
6.5. Using the Lawn Mower

Once the machine is properly set up, start the engine as described below:

- 1) Before starting the machine, pull the throttle to “Start” position. As soon as the machine has started, move the throttle lever towards the “Run” position. You should use this starting procedure for cold and warm starting.



- 2) Pull the safety bail arm (Dia. 2) (Engine Brake) and hold it against the handlebars, as shown.



- 3) (Recoil Starting) Pull the recoil starter handle until you feel resistance, then firmly pull the cord all the way out to start the engine, having followed instruction in 6.5.1.



- 4) (Electric starting) Turn the key on the control panel, until the engine starts having followed steps 1 & 2 above





Do not start the engine in tall grass.

- 5) Now the engine is running, you may use the machine as hand propelled lawnmower, next, push the drive bail arm forward (Dia. 1 and now the lawnmower will start to drive forward under it's own power. It drives at a rate of about 3.6 km/h.



- 6) Release the drive bail arm, and the drive stops, you now have a hand propelled lawnmower again.
- 7) To stop the engine, release the safety bail arm.



When the engine has been switched off, the blade might continue running for several seconds.

DO NOT touch the underside of the mower until the blade have come to a standstill!

6.6. Maintenance



Before performing any maintenance or cleaning work, ALWAYS turn off the engine.

- Do not spray the unit with water. Ingress of water may damage the engine and electrical connection.
- Clean the unit with a cloth, hand brush, etc.
- Always check engine oil level before each use.

Maintenance schedule			
	12 hours of use	24 hours of use	36 hours of use
Air Filter	Clean	Clean	Replace
Spark Plug	Check	Clean	Replace
Engine Oil	Check	Replace	Check

1) Expert inspection is required:

- If the lawn mower strikes an object.
- If the engine stops suddenly
- If the blade is bent (do not align!)
- If the gears are damaged.

Replacing and re-sharpening the mowing blade at the end of the mowing season is recommended. Replace the mowing blade with a new one. If you have the mowing blade re-sharpened, ensure it is professionally balanced before refitting.

Unbalanced blades will cause the lawn mower to vibrate violently and cause severe engine damage!

2) Change the blade

Prior to the blade being removed, drain the oil and fuel as detailed in Section 6.

To remove the blade, unscrew the blade bolt, check the blade support and change all spare parts if they are worn out or damaged.

When reassembling the blade, make sure that the cutting edges face in the direction of the engine



rotation. The blade bolt must be torque to 4.5 K·gm(45Nm) with a dynamometric tool.

Make sure you replace the fuel and oil prior to starting as detailed in Section 6.

3) Change and clean the spark plug

- Once the engine has cooled, remove the spark plug using the spark plug spanner supplied.
- Clean the plug with a wire brush.
- Use a feeler gauge; set the gap to 0.75 mm.
- Install the spark plug carefully by hand, to avoid cross-threading.
- After the spark plug is seated, tighten with spanner to compress the washer.



4) Clean the air filter

- Press down on the cover tabs and remove the air filter element.
- Inspect the filter element and replace it if damaged.
- Clean the filter by tapping it several times on a hard surface to remove dirt or blow compressed air through the filter from the inside. Never try to brush off dirt; brushing will force dirt into the fibers.
- Wipe dirt from the inside of the air cleaner base and cover, using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the carburetor.
- Reinstall the filter and cover.



Warning!

Never run the engine without the air filter element installed.

5) Storing the unit

After mowing, clean the unit thoroughly. Store the unit in a dry room allow the engine to cool down beforehand. To reduce storage space, the upper handle can be folded down, unscrew the wing nuts by approx. 6 revolutions.

6.7 Troubleshooting



Before performing any maintenance or cleaning work, ALWAYS turn off the engine and wait until the cutter has come to a standstill.

1) Engine does not run:

- Start on short grass or on an area which has already been mown.
- Clean discharge channel/housing (the mowing blade must rotate freely)
- Raise the cutting height to the highest setting.
- Following starting steps in Section 6.5

2) Engine power drops:

- Increase the cutting height.
- Clean discharge channel/housing.
- Have mowing blade re-sharpened / replaced.

3) Grass Collector is not filled sufficiently

- Increase the cutting height.
- Allow the lawn to dry.
- Have mowing blade re-sharpened / replaced
- Clean the netting of the grass catcher.
- Clean the discharge channel / housing.
- Make sure the mulch plug is removed from the machine.

4) Wheel drive does not function

- Adjust the flexible cable.
- Check the drive wheels for damage.
- Faults which cannot be rectified with the aid of these steps – seek professional help.

My Spectrum Product Details

MODEL NUMBER	TG
SERIAL NUMBER	
DATE OF PURCHASE	

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