

# LawnMaster®



## 21" COMMERCIAL **GLADIATOR PRO**

### **SAFETY AND OPERATING MANUAL**

PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATING THE UNIT

## LALS53P4224U



A STEELFORT PRODUCT



PROUDLY  
NZ OWNED



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**Thank you for purchasing our LawnMaster Gladiator Pro, the information within this manual will help you to have many years of safe and trouble free use of this LawnMaster product**

## **OPERATOR SAFETY**

### **GENERAL OPERATION**

This manual contains important safety information and instructions to operate the LawnMaster Gladiator Pro.

Before starting to use this machine, read, understand and follow all instructions that are provided in this manual. Be thoroughly familiar with the controls and the proper use of the machine before starting operations.

### **DANGER**

Indicates a hazardous situation which, if not strictly complied with, will result in substantial property damage and or serious injury.

### **WARNING**

Indicates a hazardous situation which, if not strictly complied with, may result in property damage

### **CAUTION**

Indicates a hazardous situation which, if not strictly complied with, could result in property damage or personal injury.

The warnings and precautions discussed in this manual does not cover all possible conditions and or scenarios that may occur. It must be understood by the operator that common sense and caution must be taken into consideration when operating this product, as these are factors which cannot be built into this manual.

### **WARNING**

Do not put hands or feet near or under moving parts. Keep clear of the discharge opening at all times.

This machine may only be operated by responsible persons, who are familiar with the operating instructions. Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations can restrict the age of the operator. To avoid injury, ensure no one is around while mowing. If someone enters, stop the machine

by releasing the control bar. Never mow near people, especially kids or pets.

Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

### **CAUTION**

Do not operate the mower when barefoot or while wearing open sandals. Always wear robust footwear when mowing.

While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.

Carefully examine the work area and eliminate objects like rocks, toys, wires, and sticks that could be thrown by the machine through the discharge opening.

Avoid pulling the mower backward unless necessary. Prior to moving backward, always check behind you and below. Exercise great care when reversing or pulling the lawnmower towards yourself.

Prior to using the mower, ensure proper installation of all protective screens, grass catcher, and safety devices. Never operate the lawnmower with damaged guards or without necessary safety features like deflectors and grass catchers.

Observe the instructions of the manufacturer, for proper operation and installation of accessories . Only those accessories that have been approved by the manufacturer may be used.

Make sure that the blade(s) of the mower is (are) not rotating, before crossing gravel drives, walkways or roads.

Stop the engine and wait until the blade comes to a complete stop, before removing the grass catcher.

Mowing should only be done during daylight or under good artificial lighting.

Do not operate the machine while under the influence of alcohol or drugs.

Never operate the mower in wet grass, where feasible. Always be sure of your footing. Keep a firm hold on the handle and walk; never run.

Before starting the engine, disengage all blade and self-propelling mechanism or drive clutch on mowers so equipped.

If the mower should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.

Keep hands and feet away from the enclosure.

Worn parts should be referred to your local LawnMaster Dealer to be replaced.

Before using the machine, inspect the machine by visual to determine whether the cutting, fastening bolts and the entire mower deck is worn or damaged. To avoid an imbalance, replace worn out or damaged cutting attachment bolts sets.

## **SLOPE OPERATION**

Slopes are a major factor related to slip and fall accidents, which can result in severe injury. All slopes require extra caution. If you feel uneasy on a slope, do not mow it.

DO:

- Mow across the face of slopes: never up and down. Exercise extreme caution when changing direction on slopes.
- Remove obstacles such as rocks, tree limbs, 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.
- Trim excessively steep slopes.
- Mow on wet grass. Reduced footing could cause slipping.

## **CHILDREN**

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- Keep children out of the trimming area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and while walking backwards, look behind and down for small children.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

## **MOWER OPERATION**

Petrol is highly flammable. Use extra care in handling gasoline and other fuels. They are flammable and vapours are explosive.

- Store fuel in containers specially designed for this purpose; use only an approved fuel container
- Refuel outdoors only and do not smoke while refueling; never refuel the machine indoors.
- Never store the machine or fuel container near an open flame, such as a water heater.
- Add fuel before starting the engine. Never remove the cap off the fuel tank or add petrol while the engine is running or when the engine is hot; Allow the engine to cool before refueling.
- 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 smoke near around the mower.
- Replace faulty silencers.
- Clean up any oil or fuel spills.
- Do not start the engine when standing in front of the discharge chute.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect; Walk never run.
- Always be sure of your footing on slopes.
- Do not change the engine governor settings or over-speed the engine.
- Never make adjustments or repairs with the engine (motor) running. Disconnect the spark plug wire, and keep the wire away from the plug

- to prevent accidental starting.
- Check regularly that nuts and bolts, especially blade attachment bolts, are fastened tightly and keep the equipment in a good condition
- Never tamper with safety devices. Check their proper operation regularly.
- Make sure that grass, leaves or other debris does not collect in the mower; check regularly and remove such residues to blocking.
- Stop and inspect your lawnmower if you strike any object. Repair, if necessary, before restarting.
- Never attempt to make wheel height adjustments while the engine is running.
- Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be ejected. Frequently check these components and, if necessary, replace damaged components with parts recommended by the manufacturer.
- Mower blades are sharp and can cause injuries. Wrap the blade(s) or wear gloves when handling them, and use extra caution during blade maintenance.
- Be especially careful in case you reverse the mower or going to use the machine.
- Start the engine or switch on the motor carefully according to instructions and with feet well away from the blades.
- Avoid tilting the lawnmower unless necessary for starting. If needed, tilt minimally and lift the side away from you.
- Never pick up or carry a lawnmower while the engine is running.
- Stop the engine and disconnect the spark plug wire: 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 re-starting and operating the lawnmower. If lawnmower starts to vibrate abnormally (check immediately).
- Stop the engine: Whenever you leave the lawnmower & Before refueling.
- 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.
- Allow the engine to cool before storing in any enclosure.
- Never store the equipment with petrol in the tank inside a building where fumes can reach an open flame or spark. To reduce the fire hazard, keep the engine, silencer, battery

compartment and petrol storage area free of grass, leaves, or excessive grease.

- Check the grass catcher frequently for wear or deterioration.
- If the fuel tank has to be drained, this should be done outdoors.

#### **WARNING**

Engine exhaust gasses and some of its constituents, as well as certain other vehicle components contain or emit chemicals, which are known to cause cancer, possible birth defects or harm to the reproductive organs.

#### **PROPER USE**

The gasoline lawn mower is for private use in the home and garden. The mower may only be used for the maintenance of grass or lawns in the home and garden. Any application that is not listed in this guide is prohibited. The above use and safety instructions must be strictly adhered to. The manufacturer assumes no liability for any damage caused by improper operation, improper use, misuse, unauthorised repairs or alterations performed.

#### **RESIDUAL RISKS**

Even when the power tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the power tool's construction and design. 1. Damage to lungs if an effective dust mask is not worn. 2. Damage to hearing if effective hearing protection is not worn. 3. Damages to health resulting from vibration emission if the power tool is being used over longer periods of time or not adequately managed and properly maintained.

**SERIAL NUMBER** \_\_\_\_\_

**DATE OF PURCHASE** \_\_\_\_\_

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A DECAL ATTACHED TO THE REAR OF THE LAWNMOWER HOUSING. YOU SHOULD RECORD BOTH SERIAL NUMBERS AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

# GETTING STARTED

## ASSEMBLY

### IMPORTANT

This lawnmower is shipped without oil or fuel in the engine.

Your new lawnmower is mostly assembled but some parts are left separate for shipping. All the necessary nuts, bolts, washers, etc., are in the parts bag. For safe operation, ensure you securely tighten all assembled parts using the right tools.

### 1. REMOVE LAWNMOWER FROM CARTON

- Remove loose parts included with mower.
- Cut down two end corners of carton and lay end panel down flat.
- Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
- Roll lawn mower out of carton and check carton thoroughly for additional loose parts.

### 2. SETTING UP YOUR LAWNMOWER

### IMPORTANT

Unfold handle careful, do not pinch or damage control cables.

- Lift and unfold upper handle to desired height and pull two levers on both sides to lock upper handle. Refer to Service and Adjustments section



### CAUTION

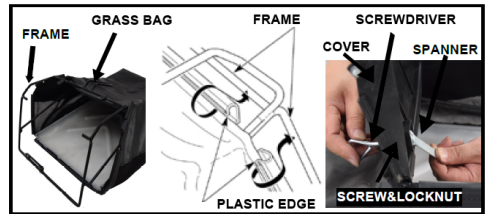
Unfold the handle carefully to avoid pinching and damaging the control cables.

- Remove any packaging material from around the control bar.
- Your handles may be adjusted for your mowing comfort. Refer to Service and Adjustments section of this manual.

### 3. ASSEMBLE GRASS CATCHER

- Put grass catcher frame into grass bag with rigid part of bag on the bottom. Make sure the frame handle is outside of the bag top.
- Slip vinyl bindings over frame.
- Fix the cover on the frame with screw and locknut.
- Tighten with screwdriver and wrench.

NOTE: If vinyl bindings are too stiff, hold them in warm water for a few minutes. If bags get wet, let it dry before using.



### 3. ASSEMBLE ENGINE STARTER ROPE

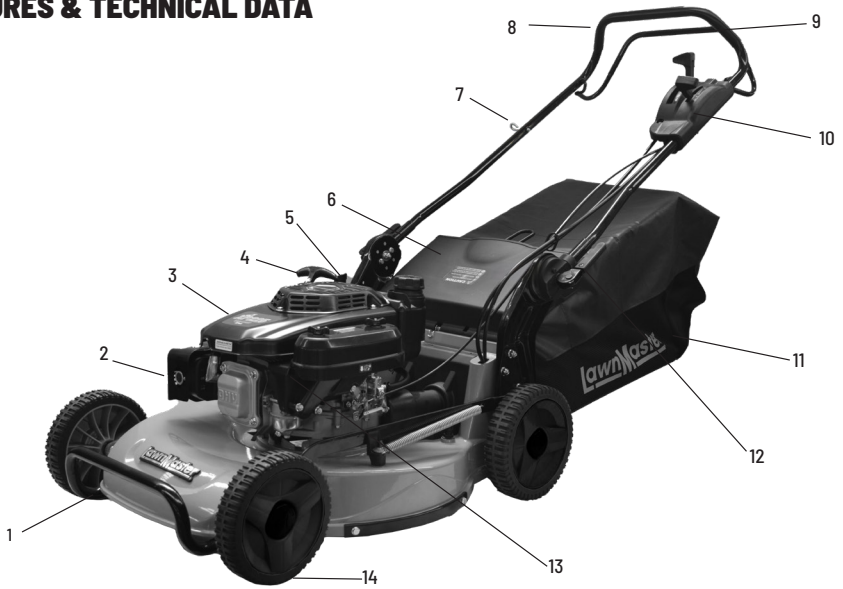
- Pull the starter handle back to the hook ring on upper handle. Assemble the rope into the zone starter ring through the opening of hook ring
- Always keep starter rope in hook ring during all mowing work.



### WARNING

To start the engine safely, position yourself at the back of the upper handle. Keep the rope in the middle of the hook ring while starting and mowing. Starting the engine away from this position is risky and could cause severe injury to body parts.

## FEATURES & TECHNICAL DATA



- |                            |                                  |                              |
|----------------------------|----------------------------------|------------------------------|
| 1. Bumper                  | 6. Rear Cover                    | 11. Grass Catcher            |
| 2. Muffler                 | 7. Zone Starter Ring             | 12. Locking Lever Adjustment |
| 3. Engine                  | 8. Upper Handle                  | 13. Air Filter               |
| 4. Starter Knob            | 9. Driver Control Lever          | 14. Wheel                    |
| 5. Height Adjustment Lever | 10. Throttle & Gearshift Control |                              |

MODEL	LALS53P4224U
Engine	LawnMaster XP225
Mower Type	Self Propelled
Cutting Width	528mm (21")
Cutting Height	9 Position Variable Steel Height Control Adjustable 15-66mm
Displacement (cc)	224cc
Drive Speed	4.27-5.63 km/p - 3 Gears
Blade Speed	3300/min
Catcher Capacity	70 Litres
Fuel Type	91 Unleaded
Weight	52kg

Technical Data is subject to change without notice.

# OPERATION

## DRIVE CONTROL BAR:

Used to engage the gearbox and propel the lawn mower forward.

## THROTTLE CONTROL:

Used for starting the engine and allows you to select either fast or slow engine speed.

## MULCHING PLUG:

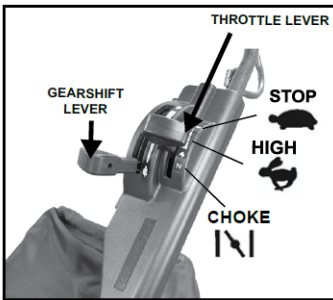
Allows the grass to be cut multiple times under the cutting deck until small enough to be left on the lawn.

## WARNING

When using a lawnmower, there's a risk of objects hitting your eyes and causing serious damage. Wear safety glasses or eye shields while operating, making adjustments, or doing repairs. Using a wide vision safety mask over regular glasses is recommended.

## USING THE ENGINE SPEED

A throttle located on the side of the upper handle controls the engine speed. Fast position is for normal cutting, trimming and better grass bagging. Slow position is for light cutting, trimming and fuel economy.



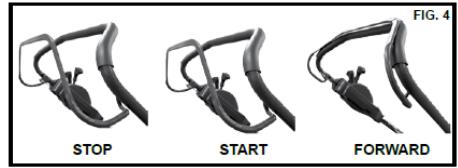
## OPERATING THE DRIVE SYSTEM

To start forward motion, push drive control bar forward to handle.

To stop forward motion, release drive control bar.

## IMPORTANT

Always keep drive control fully engaged against handle when in use.



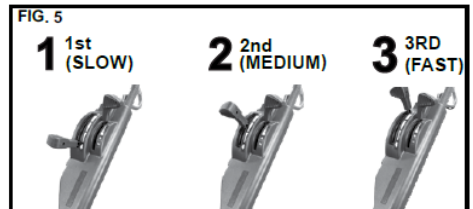
## ADJUSTING THE DRIVE SPEED

NOTE: The speed may only be adjusted when the engine is running in order to avoid damage.

## GEAR SHIFT LEVER

1. Start Engine
2. Select the speed/gear required - 1st slow, 2nd medium, 3rd fast.
3. For good mowing performance from your mower the throttle control lever should be set to high.
4. Before pushing the drive lever to engage the gear box. Push the mower forward manually while slowly pushing the drive lever towards the top handle. Mower will start to move forward.
5. Be sure the gear shift lever is engaged in one of the three detent positions.

NOTE: Get used to how your mower will engage and drive forward, firstly start with the throttle lever set to low or medium.



1st (Slow) - Mowing Long/Thick Grass

2nd (Medium) - Intermediate Mowing Speed

3rd (Fast) - Max. Self Propelled Mowing

## ADJUSTING CUTTING HEIGHT

- Never adjust the cutting height with the motor still running.
- The mower is adjusted to one cutting height upon delivery.
- All four wheels are adjusted by a single lever except the model 2in1. The 2in1 mower has two levers to adjust the front wheel and rear wheel individually.



- You can set the cutting height to the desired height to fit different terrain. Pull the lever out from the catch, move to the desired position and let it fall back into the catch.

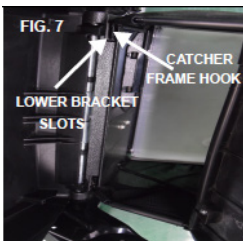


### WARNING

The lawnmower can only be used on level lawns if the lowest cutting height is being used.

### ATTACHING THE GRASS CATCHER

- Lift the rear flap of the lawn mower and place the grass catcher frame side hooks into the slots of the lower handle brackets.
- The grass catcher is secured to the lawn mower housing when the rear flap is lowered onto the grass catcher frame



### CAUTION

Do not run your lawn mower without clipping deflector or approved grass catcher in place. Never attempt to operate the mower with rear door removed or propped open.

### TO EMPTY YOUR GRASS CATCHER

- Lift up on grass catcher using the frame handle.
- Remove grass catcher with clippings from under lawn mower handle.
- Empty clippings from bag using both frame handle and bag handle.
- 

NOTE: Do not drag the bag when emptying, this will cause wear.



### CAUTION

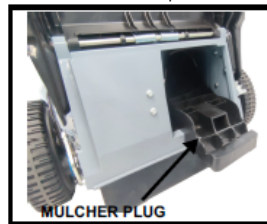
During operation of emptying clippings from grass catcher, please wear protective gloves to prevent environmental influence on your skin.

### CONVERTING YOUR MOWER

Your lawn mower was shipped ready to be used as a mulcher. To convert to bagging/catching.

### REAR BAGGING/CATCHING

- Open rear flap and remove mulcher plug. Store mulcher plug in a safe place.
- You can now install the grass catcher (See to attach grass catcher).
- To convert to mulching, install mulch plug into rear discharge opening of mower.

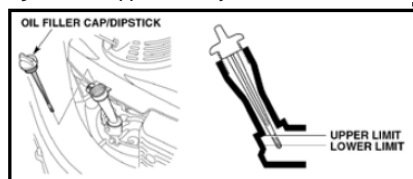


### CAUTION

Do not run your lawn mower without clipping deflector or approved grass catcher in place. Never attempt to operate the mower with rear door removed or propped open.

### BEFORE STARTING ENGINE

Your lawnmower is shipped without oil in the engine. Engine holds approximately 0.6L



1. Be sure lawnmower is level and area around oil filler is clean.
2. Remove engine oil cap and fill to the full line on the dipstick. Pour oil slowly. Do not over fill.

NOTE: Allow oil to settle down into engine for accurate reading. Insert and remove dipstick without screwing it into the filler-neck. Check oil level shown on dipstick.

3. Reinstall engine oil cap and tighten.

Check oil level before each use. Add oil if needed. Fill to full line on dipstick.

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.

### ADD FUEL

NOTE: Before filling fuel tank, remove and discard the debris plug that is inside the tank. Fill fuel tank. Use fresh, clean, regular unleaded fuel with a minimum of 95 octans. Do not mix oil with fuel. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

### WARNING

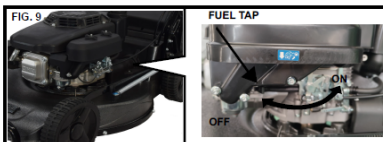
Alcohol-blended fuels (like gasohol with ethanol or methanol) can attract moisture during storage, causing acid formation that damages the engine's fuel system. To prevent issues, empty the fuel system if storing for 30 days or more. Drain the tank, run the engine to empty fuel lines and carburetor, and use fresh fuel next season. Avoid using fuel additives in the tank, as it may lead to permanent damage.

### CAUTION

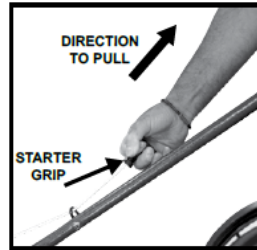
Fill to bottom of fuel tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill, or use gasoline near an open flame.

### STARTING ENGINE

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



1. Turn the fuel tap to the on position (See figure 9).
2. Move throttle lever to the choke/starting position. \*Pre-Run engine - move the throttle to the high/fast position.
3. Pull the starter handle lightly till resistance is felt, then pull briskly towards yourself/upwards return starter handle to zone starter ring.



4. After a few seconds move throttle away from choke position.
5. Select required speed.
6. To move forward push drive lever towards handle.

### CAUTION

If the engine fails to start in 30 seconds after repeated starting operation by pulling the starter knob, please stop your operation and check the causes.

### STOPPING THE ENGINE

- To stop engine, release drive lever control bar.
- Move throttle lever to stop position.

### MOWING TIPS

- In specific situations like very tall grass, raising the cutting height can ease pushing, prevent engine strain, and avoid clumping. Adjust ground speed or mow the area again if needed.
- For extremely heavy cutting, reduce the width of cut by overlapping previously cut path and mow slowly.
- For better grass catching and most cutting conditions, the engine speed should be set in the fast position.
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers 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.

#### **IMPORTANT**

For best performance, keep mower housing free of built-up grass and trash.

#### **MULCHING MOWING TIPS**

- The special mulching blade will re-cut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed, as this will provide the best re-cutting action of the blades.
- Avoid cutting your lawn when grass is wet. Wet grass can form clumps and interferes with mulching action. The best time to mow is early afternoon, by this time the grass shall have dried and the newly cut area will not be exposed to sun.
- For best results, adjust the lawn mower cutting height so that the lawn mower cuts off only the top one-third of the grass blades. If the lawn is overgrown it will be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of mulched grass. For extremely heavy mulching, reduce your width of cut by overlapping previously cut path and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

## **MAINTENANCE**

#### **BEFORE EACH USE**

1. Check engine oil level.
2. Check for loose fasteners.

#### **LAWNMOWER**

Always observe safety rules when performing any

maintenance.

#### **TYRE**

- Keep tyres free of fuel, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tyre damage.

#### **BLADE CARE**

For best results, the mower blade must be kept sharp. Replace bent or damaged blades. Contact your local LawnMaster service dealer for mower blade replacement.

#### **TO SHARPEN BLADE**

We do not recommend sharpening the blade.

#### **GRASS CATCHER**

- The grass catcher may be hosed with water, but must be dry when used.
- Check your grass catcher often for damage or deterioration. Through normal use it will wear. If catcher needs replacing, replace only with a manufacturer approved replacement catcher. Give the lawn mower model number when ordering.

#### **DRIVE WHEELS (SELF PROPELLED)**

Check rear drive wheels each time you mow to be sure they move freely. The wheels not turning freely means trash, grass cuttings, etc. may be inside the drive wheel and dust cover area and must be cleaned out to free drive wheels. If necessary to clean the drive wheels, check both rear wheels.

1. Remove hubcaps, bolt, spring lock washer and washer.
2. Remove wheels from wheel adjuster axles. If installed incorrectly, the drive system will not work.
3. Remove any trash or grass cutting from inside the dust cover, pinion and/or drive wheel gear teeth

NOTE: The pinion gear, on both sides of the mower, are the same, however, they must be installed correctly. If installed incorrectly, the drive system will not work.

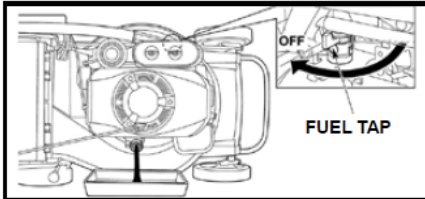
4. Place wheels back on adjuster axles.
5. Replace spring lock washer, bolt and hub caps.

NOTE: Although multi-viscosity oil (5W30, 10W30 etc) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32 F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 25hours of operation or at least once a year if the lawn mower is not used for 25hours in one year. Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Tighten oil plug securely each time you check the oil level.

### TO CHANGE OIL

NOTE: Before tipping lawn mower to drain oil, drain fuel tank by running engine until fuel tank is empty.

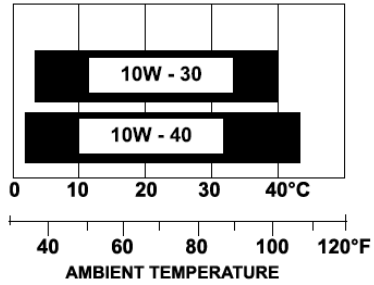
1. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.
2. Remove engine oil cap; lay aside on a clean surface.
3. Tip lawn mower on its side as shown and drain oil into a suitable container. Rock lawn mower back and forth to remove any oil trapped inside of engine.



4. Return lawn mower to upright position. Wipe off any spilled oil from lawn mower or side of engine.
5. Fill engine with oil.
6. Reconnect spark plug wire to spark plug.

### LUBRICATION

Use only high quality detergent oil rated with API service classification SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature.



### OIL RECOMMENDATIONS

Oil is a major factor affecting the performance and life of your power engine. Always use a good quality 4 stroke engine oil. SAE 10W-30 is recommended for general use . When checking the label on your oil bottle be sure it includes the letters SG or higher. If you have any concerns contact your local LawnMaster dealer.

### CLEANING

1. Clean the underside of your lawn mower by scraping to remove build-up of grass and trash.
2. Clean engine often to keep trash from accumulating. A clogged engine runs hotter and shortens engine life.

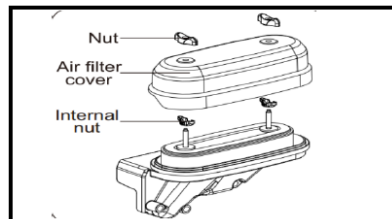
### CAUTION

Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.

3. Keep finished surfaces and wheels free of all fuel, oil, etc.
4. We do not recommend using a garden hose to clean lawn mower unless the electrical system, muffler, air filter and carburettor are covered to keep water out. Water in engine can result in shortened engine life.

### AIR FILTER

Your engine will not run properly and may be damaged by using a dirty air filter. Clean the element after every 25 hours of operation, more often if lawn mower is used in very dusty, dirty conditions.

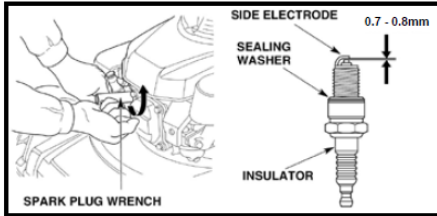


## MUFFLER

Inspect and replace corroded muffler as it could create a fire hazard and/or damage your engine.

## SPARK PLUG

Change your spark plug each year to make your engine start easier and run better. Set spark plug gap at 0.7 -0.8mm or .030 inch.



## IMPORTANT

For best performance, keep mower housing free of built-up grass and trash. Clean the underside of your mower after each use.

## STORAGE

Immediately prepare your lawn mower for storage at the end of the season or if the unit will not be used for 30 days or more.

### LAWNMOWER

When your lawn mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

1. Clean entire lawn mower
2. Lubricate
3. Be sure that all nuts, bolts, screws, and pins are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
4. Touch up all rusted or chipped paint surfaces; sand lightly before painting.

### HANDLE

You can fold your lawn mower handle for storage.

1. Loosen lever A on sides of the upper handle and pivot entire handle assembly forward and allow it to rest on mower. Re-tighten lever A.
2. When setting up your handle from the storage position, loosen lever A on both sides, and rotate handle and set it to new catch desired.

## ENGINE

### FUEL SYSTEM

It is important to prevent gum deposits from forming in essential system parts such as carburettor. Fuel filter, fuel hose, or tank during storage. Also, experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

- Drain the fuel tank
- Start the engine and let it run until the fuel lines and carburettor are empty.
- Never use engine or carburettor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimising the formation of fuel gum deposits during storage container. Always follow the mix ratio found on the stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburettor. Do not drain the fuel tank and carburettor if using fuel stabilizer. Drain oil (with engine warm) and replace with clean engine oil.

### CYLINDER

1. Remove spark plug.
2. Pour 30ml of oil through spark plug hole into cylinder.
3. Pull starter handle slowly a few times to distribute oil.
4. Replace with new spark plug.

### OTHER

- Do not store fuel from one season to another.
- Replace your fuel can if your can starts to rust. Rust and /or dirt in your fuel will cause problems
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.

### IMPORTANT

Never cover mower while engine and exhaust areas are still warm.

# MAINTENANCE SCHEDULE

FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		BEFORE EACH USE	AFTER EACH USE	EVERY 10 HOURS	EVERY 25 HOURS OR EVERY SEASON	BEFORE STORAGE	SERVICE DATES
MOWER	Check for loose fasteners	✓				✓	
	Clean/Inspect Grass Catcher (If Equipped)	✓	✓			✓	
	Clean lawnmower		✓			✓	
	Clean Under Drive Cover (Power-Propelled Mowers)			✓		✓	
	Check/Sharpen/Replace Blade				✓ 3		
	Lubrication Chart				✓	✓	
ENGINE	Change engine oil				✓		
	Change engine oil level	✓			✓ 1,2		
	Clean air filter			✓ 2			
	Inspect Muffler				✓		
	Clean or replace Spark Plug				✓		
	Replace Air Filter Paper Cartridge				✓		

1. Change more often when operating under a heavy load or in high ambient temperatures
2. Service more often when operating in dirty or dusty conditions.
3. Replace blades more often when mowing in sandy soil.

## GENERAL RECOMMENDATIONS

The warranty on this lawnmower does not cover articles that have been subjected to operator abuse or negligence. To maintain a complete coverage by the warranties provided, the operator must maintain the mower as instructed in this manual. For a proper maintenance of your mower, some adjustments will need to be made Service and Adjustments section of this manual and should be checked at least once each season. Once a year, replace the spark plug, clean or replace air filter element and check blade for wear. A new spark plug and clean/new air filter element assures proper air-fuel mixture and helps your engine run better and last longer.

## WARNING

Make sure all operations are performed while the engine is stopped.

## SERVICE AND ADJUSTMENTS

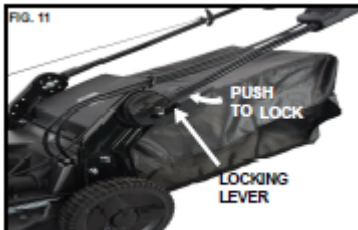
1. Release drive control bar to stop the lawn mower.
2. Make sure the blade and all moving parts have stopped completely.
3. Disconnect cable from the spark-plug and place where it cannot come in contact with plug.
4. Make sure that all the nuts, bolts and screws are tightened and the device in a safe condition.
5. Let the mower to cool before using it in a closed area off.
6. In order to avoid the risk of fire, keep motor housing and ventilation openings free of grass, leaves and oil or fat.
7. Replace worn out or damaged parts for security reasons.

### LAWNMOWER

#### TO ADJUST HANDLE

The handle on your lawn mower has different height positions-adjust to height that suits you.

1. Loosen the 2 lever A on both sides.
2. Rotate upper handle to new catch desired.
3. Re-tighten lever A.



#### REAR DEFLECTOR

The rear deflector, attached between the rear wheels of your mower, is provided to minimize the possibility that objects will be thrown out of the rear of the mower into the operator's mowing position. If the deflector becomes damaged, it should be replaced.

### ENGINE

#### ENGINE SPEED

Your engine speed has been factory set. Do not attempt to increase engine speed or it may result in personal injury. If you believe that the engine is running too fast or too slow, take your lawn mower to your local LawnMaster dealer for repair and adjustment.

#### THROTTLE CONTROL

If it becomes necessary to adjust or replace the throttle control, see the adjustment section of your engine manual.

#### CARBURETTOR

The carburettor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load.

- The air filter must be assembled to the carburettor when running engine - never run an engine without an air-filter.
- Best carburettor adjustment is obtained when fuel tank is 1/4 full.

# TROUBLESHOOTING

<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>
Does not start	Dirty Air Filter	Clean / replace air filter
	Out of fuel	Fill fuel tank
	Stale fuel	Drain tank and refill with fresh clean fuel
	Water in fuel	Drain fuel tank and carburetor and refill tank with fresh fuel
	Spark plug wire is disconnected	Connect wire to plug
	Bad spark plug	Replace spark plug
	Loose blade or broken blade adapter	Tighten blade bolt or replace blade adapter
	Control bar in defective	Depress control bar to handle
	Control bar defective	Replace control bar
Starter rope hard to pull	Engine flywheel brake is on when control bar is released	Depress control bar to upper handle before pulling starter rope
	Bent engine crankshaft	Contact your LawnMaster dealer
	Blade adapter broken	Replace blade adapter
	Blade dragging in grass	Move lawnmower to cut grass or to hard surface
Grass catcher not filling (if required)	Cutting height too low	Raise cutting height
	Lift on blade worn off	Replace blade
	Catcher not venting air	Clean grass catcher
Hard to push	Grass is too high or wheel height is too low	Raise cutting height
	Rear of lawnmower housing/ blade dragging in grass	Raise rear of lawnmower housing 1 setting higher
	Grass catcher too full	Empty grass catcher
	Handle height position not right for you	Adjust handle height to suit
Loss of power	Rear of lawnmower housing of cutting blade dragging in heavy grass.	Set to 'Higher Cut' position
	Cutting too much grass	Set to 'Higher Cut' position
	Dirty air filter	Clean / replace air filter
	Buildup of grass & leaves under mower	Clean underside of mower
	Too much oil in engine	Check oil level
	Walking speed too fast	Cut at slower walking pace



Loss of drive (Power propelled)	Belt wear	Check / replace drive belt
	Belt off of pulley	Check / reinstall drive belt
	Dirt in drive pinions	Clean drive pinions
Poor cut / uneven	Worn, bent or loose blade	Replace blade. Tighten blade bolt
	Wheel heights uneven	Set all wheels at same height
	Buildup of grass or leaves under mower	Clean underside of mower housing
Excessive vibration	Worn, bent or loose blade	Replace blade. Tighten blade bolt
	Bent engine crankshaft	Contact your LawnMaster dealer

### TROUBLE SHOOTING POINTS

Ensure the engine and blades are stopped and the spark plug disconnected before performing any maintenance, do not touch the engine muffler after use at very high temperature.

### ATTENTION

Before the mower is stored, make sure the engine cool

### TRANSPORTATION

Turn off the engine. Make sure the blade are not bent or damaged when you are pushing the mower over obstacles.

## WARRANTY

Subject to the following conditions, this unit is covered by a comprehensive one-year warranty.

Proper maintenance of your LawnMaster Lawn Mower is the owner's responsibility. Follow the Instructions in your owners guide for correct lubricants and maintenance schedule. Your LawnMaster dealer carries a complete line of quality lubricants and filters for your equipments engine, transmission, chassis and attachments.

We provide an extensive warranty from date of purchase. During that time we will replace free of charge replacement of any part or parts found to be defective in material or workmanship or both, after examination by an authorised LawnMaster dealer, or by the service department of LawnMaster.

If your lawnmower has malfunctioned within the warranty period, and on presentation of a properly filled in warranty certificate and the purchase invoice, please contact your local LawnMaster dealer.

A normal wear and tear and consumable parts are protected against manufacturer's defects for 30 days from purchase. Damages due to improper use, not following safety guidelines, unauthorised repairs, or non-faulty issues are not covered. Repairs for such issues are the owner's responsibility. This warranty adds to your legal and statutory rights without affecting them.

If the unit requires further repairs or services please visit [www.lawnmaster.co.nz](http://www.lawnmaster.co.nz) to find your local LawnMaster dealer.

If you need additional information concerning this written warranty, or assistance in obtaining services, please contact **Steeffort Customer Services +64 6 350 1350**

# LawnMaster®

## FIND US



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