

Save This Manual For Future Reference



MODEL NUMBER : SG0814

SERIAL NUMBER : _____

Both model number and serial number may be found on the CE label.

You should record both of them in a safe place for future use.

FOR YOUR SAFETY

READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE OPERATING MACHINE

TABLE OF CONTENTS

Table of contents -----	1
Basic warning-----	1
Safety guidelines and information -----	2
Contents supplied and asseble-----	5
Know your machine-----	7
Operations-----	7
Maintenance-----	9
Storage-----	12
Trouble shooting-----	11
Spare partrs drawing-----	11

CONGRATULATIONS AND THANK YOU FOR PURCHASING OUR NEW MODEL OF FLAIL MOWER

YOU HAVE BECOME OWNER OF A MACHINE FROM A WIDE RANGE OF MACHINES AND ATTACHMENTS MADE BY SUNKWAN,AS A SYSTEM OF GARDENING,FARMING,SMALL AGRICULTURAL AND COMMUNAL TECHNOLOGY.

PLEASE READ THE INSTRUCTIONS FOR USE CAREFULLY.IF YOU FOLLOW THEM PROPERLY, YOU WILL HAVE OUR PRODUCT PERFORMING A RELIABLE WORK FOR YOU FOR YEARS.

BASIC WARINGS

The user is obliged to get a acquainted with the instructions for use and to follow all instructions for the machine operation so that the user's and other persons' health and property cannot suffer any harm.

Safety instructions contained in this manual do not describe all situations or conditions possibly occurring in practical use.Safety factors such as common sense,diligence and scrupulousness are not included;it is assumed ,however ,that all persons authorized for the machine operation or maintenance do possess the intelligence.

The machine can be operated only by persons in good mental and physical condition.For the professional use of the machine,the machine owner is obliged to ensure a work safety training and provide instructions on machine control for operators and to keep records on these trainings and briefings.Also,the owner is obliged to carry out a so-called categorization of works according to the relevant national legislation.

Should some instructions in the manual be unintelligible ,you are encouraged to contact us.

The manual supplied with the machine is an integral part of the machine.It has to be available at any time,placed at a well accessible place with no risk of its damage.In the case that the machine is sold to another person,the Instructions for use must be given to the new machine owner.If the above conditions are not met,the manufacturer bears no responsibility for possible risks,accidents and injuries resulting from the machine operation.

The manufacturer bears no responsibility for damages caused by unauthorized and incorrect use of the machine and for damages caused by any machine modifications not authorized by the manufacturer.

To prevent injuries to operators and other people occurring in the vicinity of the machine as well as damages on property, it is absolutely necessary to follow the safety regulations marked in the Instructions for use with the following warning safety symbol:



On seeing this symbol in the Manual, read the following instructions carefully!

SAFETY GUIDELINES AND INFORMATION

Carefully read, understand and follow all safety instructions in this manual.



This is the safety alert symbol. When you see this symbol, look for one of the following signal words.



The machine operator must be over 18 years of age. He (she) is obliged to get acquainted with the instructions for use of the machine and is supposed to be informed of the general principle of work safety.



Prior to carrying out any activities in the near vicinity of the machine, switch the engine off and wait until the cutting blade stops moving. Before leaving the machine alone, switch off the engine!



Never let the engine running at maximum speed or idling for a long time with the cutting blade and wheel drive clutches switched off! Components of the machine drive (V-belt, belt pulley, clutch pulley, etc.) might get damaged.



Prior to each employment of the machine, check its parts (working mechanism and its casing in particular) for a possible damage or loosening. Defects must be rectified without any delay. Repairs are to be made only with the original spare parts.



Before using the machine, the stand to be cut must be cleared of solid bodies such as stones, wires, loose construction debris, etc., which could be flinging up or which might damage the machine. If these cannot be removed, don't work the places.




The machine is equipped with a rotating working implement. Make sure that other persons move at a safe distance from the machine when it is in operation with regard to a possible flying away of the cut stand of solid objects.





With respect to the exceeded recommended values of noise and vibrations, you are warned to observe the following instructions when working with the machine:


A) Protect your hearing by using suitable protective aids such as shell ear protectors and plug ear protectors.


B) Working with the machine should be interrupted after max. 20 minutes for a minimum break of 10 minutes. During these breaks, the machine operator must not be exposed to the impact of another source of noise or vibrations.

 Machine operators should use working aids such as tight-fitting garments, sturdy shoes, working gloves and protection glasses. Keep a safe distance given by the handlebars.


 Don't start the engine in enclosed spaces! Pay increased attention when handling the machine since the exhaust silencer remains hot after the engine has been switched off; make sure there are no leakages and spills on engine parts when refuelling. If they happen to occur, dry out the stained parts or wait until the petrol evaporates.

 When the machine is in operation, all other persons (Children in particular) and animals have to be outside the machine's working space. The machine operator can continue working only after they have been shown out to a safe distance.

 Removal of any protective equipment and casings from the machine is forbidden.

 The safe slope accessibility of the machine is 10°. Maximum inclination of the engine at work is 20° for a long-time operation and 30° for a shorter time (up to 1 minute).

NOTE: The machine should be preferably not used on wet grass. The terrain you are moving on must be always safe. Do the work while walking not running. Be particularly careful when changing direction on the slope. Cutting on steeply inclined slopes should be prevented. If you fall, do not hold the machine but release your grip on it.

 All kinds of the machine repair, adjustment, lubrication and cleaning are to be made with the machine switched off and spark plug cable disconnected.

CONTENTS SUPPLIED AND ASSEMBLE

The machine comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:(Figure 1 or figure 2)

Package(I)

- 1.Machine
2. Manual

Assemble step(I)

1. Push down the locking handlebar marked1.
2. Pull up handlebar2 and adjust the height



Package(II)

1. Machine.
2. Manual

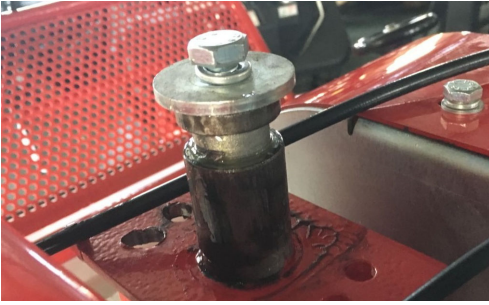
Assemble step(II)

- 1.Assemble the handle bar to the frame according to detailed steps.
2. Select the right position of the axis and adjust the handle height.

(According to assemble step(I))



Figure 2



Get the bolt M10x20, Spring washer and big washer assembled on the axle.



Get the bolt M10x40, Nut M10 assembled on the left side of handle bar



You will have the spare parts as pic 3



Assemble the handle bar to the axle and fix the spare parts to the frame as pic4. Tighten them using a spanner(Dia 16mm).

KNOW YOUR MACHINE



Blade Drive Lever

Squeeze this lever to run the blades, release it to stop the blades running.

Throttle Lever

Operate this lever to increase and decrease the throttle.

Cutting Height Adjusting wheel

Turning this lever clockwise to lower the cutting height, and counterclockwise to higher the cutting height.

R/L steering lever

When you want to turn right or left, firmly hold the R/L steering lever to re

OPERATIONS

This machine is similar to any other power driven tools, although very easy to operate it will take some familiarity with the controls and balance to master it fully. Before your any operations to it, it's a good idea to get well familiar with the controlling of it, look through the whole operation manual firstly.



The machine can be delivered without working fillings of the engine (as depending on varied national regulations)!. Engine without oil. Read the instruction for engine use thoroughly! You can prevent a possible damage for the engine.

1,check oil in the engine and/or fill the engine with the prescribed oil type and volume. Fill the tank with the prescribed amount and type of petrol.

2,move the accelerator lever into the front position. Start the engine by pulling on the manual starter(Reading engine manual step by step)

3,let the new or cold engine running for about 30 seconds on the choke(accelerator lever in the choke position); then move the accelerator lever into the position MAX and left the engine running in this position for about 30second.



Do not leave the machine alone when doing this.

When starting the engine, the two levers on the handlebars must be in the off position.

1,Start the engine, when doing this, follow the instructions presented in the operating manual for engine use.

2,Set-up maximum engine rotations by accelerator lever on the right handrail.(should the engine be cold, let it warm up at maximum speed for about 1 minute.)

3,Grasp the left handle bar grip, then slowly press the mowing drive gear lever on the right handlebar grip with your right hand

Press the lever slowly up to two thirds of the stroke so that the mowing disk can start rotating and the engine does not stall

The start of the mowing is accompanied with partial slippage of the V-Belt and with the related Phenomena such as whistling,rattling,etc. Which usually disappear after the belt has started properly moving.

4, after the mowing has started turning,press the lever completely to the handrail and hold firm

Note: in a new or cold engine, engine stalling may occur at several first mowing driving start. The phenomenon will disappear after the engine has got warmer.

Machine travel

The travel gear is to be switched on by a lever on the left handrail. Press the lever down to the handrail and the machine starts immediately moving forward. You have to start slowly walking as soon as you have pressed the lever down and the machine has started its travel.The machine may start moving with a slight jerk: be prepared for that.

Before machine travel

Prior to the machine use, the stand must be cleared of solid bodies such as stones,wires,loose construction debris,etc. Which could be flung or might otherwise damage the machine. Should these be impossible to remove, avoid working the places.Adjust handlebar in a right position(figure1,2)

1) .Adjust height of handle bar---push down the locking handle circled in figure 1 and adjust the height of handlebar to get the best height.



(Figure1)

2).Adjust direction of handle bar---Pulling up the bar circled, then the handlebar can turn left-middle- right and select the suitable locking position then put it down and handlebar will



(Figure2)

be locked. So, operator can control the lawn mower not only

behind, but also on both sides for difficult work site.

3).Adjust the Blade height before mowing(Figure3)

Turn the handle wheel clockwise-----blade lower.

Turn anticlockwise---blade higher



(Figure3)

Stop your machine

Prior to performing any activities in the near vicinity of the machine, switch off the engine and wait until the mowing stops! Always switch the engine off before leaving the machine.

Never let the engine running at maximum speed or idling with the mowing disk drive gear clutch released and with the released clutch of travel wheels drive gear for a long time! Machine drive components(v-belt,belt pulley,clutch pulley,etc.)might get damaged!

If you wish to stop the machine travel, release the lever on the left handlebar grip, the machine travel will stop but the mowing is still rotating. The mowing disk will switch off immediately after you have released the lever on the right handle bar grip.the mowing disk will be stopped by safety brake.

Engine is to be switched off by pushing the lever into the stop position

In case of any critical situation, release you hold on the handlebars immediately. The lever will return to their zero position, the machine and the mowing disk will come to a stop(while engine is still running at adjusted rotations; this is why it is to be switched off by pushing the lever into the stop position as soon as possible!)

MAINTENANCE

TO ensure a long-term satisfaction with our products, it must be given proper care and maintenance,regular maintenance of the machine will prevent its early wear ensuring at the same time a correct functioning of all its parts.

Fellow all instructions for intervals of machine maintenance and adjustment. It is advised that you keep records on the number of machine working hours and on the conditions in which the machine was working (for service purpose). similarly as the current maintenance, the post-season maintenance should be entrusted to one of our authorized service workshops if you are not certain of your own technical skill.

Regarding the machine weight, its maintenance and adjustment are to be made by a team of two persons.

Replace and sharpening of working knives

If the cutting edges of working knives show wear or a damage to knives results in machine vibrations, the cutting edges must be renewed or the knives replaced.

The engine must be switched off and the cable and connector to the spark plug disconnected!

The machine must be standing on a firm support plate and must be secured so that the knife can be easily accessible and an unexpected spontaneous machine motion cannot occur.

Be very careful when dismantling the knives, their cutting edges are sharp. Protect your hands with working gloves.

1) Take the front cover away. Loosen the bolts mounted on both sides as(**Figure 4**),

the front cover can be taken off easily.



(**Figure 4**)

- 2) When you replace the blades, just loosen the screw and set up on a new piece blade.



(Figure 5)

Adjust the loosen V-belt

After a longtime working-sevice, when the v-belt is loosen, there's two ways for tensioning it by adjusting the nuts below .

A. Adjust the v-belt for blade tube

- 1) Turn the nut circled in(**figure 6**)correctly.



(Figure 6)

- 2) .Take the cover away and turn the two nuts in (**Figure 7**) to correctly.

- 3) You can choose A or B or both of them. If still not well after adjusted, then replace the belt.

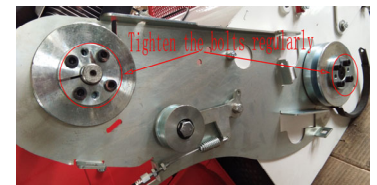


(Figure 7)

B. Same steps for adjusting v-belt of gearbox.

Tighten the bolts of wheel bush

After a period of working, the bolts on the bush of driving wheel and driven wheel circled in (**Figure8**) can get loosen because of shaking, so they need be checked timely and tighten use the related tools.



(Figure8)

Washing and cleaning of the machine

At cleaning and washing the machine, proceed to observe valid regulations and legislation on the protection of water coursed and other water resources against pollution or contamination with chemical substances.

Never wash the engine with a steam water! Electric equipment might fail when starting the engine.

All dirt, debris and plant residues should be removed from the machine after the end of season, check the intactness of working knives, grind he cutting edges(or replace the knives if necessary) and conserve the knives with conservation oil, travel wheels should be dismantled from the axle once in season, cleaned and hubs inside filled with a new filling of plastic lubricant.

The engine must be switched off and the cable termination to the spark plug disconnected!

MACHINE STORAGE

Prior to any longer storage, clean the machine from all dirt, debris and plant residues. repair damages on painted machine parts.

When putting the machine out of operation for a longer time, it is advisable:

a) to conserve knives on the mowing.

b) to drain petrol from the engine fuel tank and from the carburetor (more instructions see guidelines for engine operation).

Prevent access of unauthorized persons to the machine. Protect the machine from weather impacts but do not use air-tight protection due to a possibly increased corrosion under it.

TROUBLE SHOOTING

ENGINE WILL NOT START	Possible Cause	Correction
1. Check control positions	Fuel valve OFF.	Move lever to ON.
	Choke OPEN.	Move lever to CLOSE unless engine is warm.
	Engine switch OFF.	Turn engine switch to ON.
2. Check fuel.	Out of fuel.	Refuel
	Bad fuel; engine stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor. Refuel with fresh gasoline.
3. Remove and inspect spark plugs.	Spark plugs faulty, fouled, or improperly gapped.	Gap, or replace spark plugs.
	Spark plugs wet with fuel (flooded engine).	Dry and reinstall spark plugs. Start engine with throttle lever in FAST position.
4. Take engine to an authorized servicing dealer, or refer to manual.	Fuel filter clogged, carburetor malfunction, ignition malfunction, valve stuck, etc.	Replace or repair faulty components as necessary.

ENGINE LACKS POWER	Possible Cause	Correction
1. Check air filter	Filter element(s) clogged.	Clean or replace filter element(s).
2. Check fuel.	Out of fuel.	Refuel
	Bad fuel; engine stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor. Refuel with fresh gasoline.
3. Take engine to an authorized servicing dealer, or refer to manual.	Fuel filter clogged, carburetor malfunction, ignition malfunction, valve stuck, etc.	Replace or repair faulty components as necessary.
ENGINE IS RUNNING BUT MACHINE DOESN'T WORK	1. Gear is not properly selected. 2. Clutch cable is not tight enough	1. Ensure gear shift is not between two gears. 2. Adjust clutch cable.

DATA OF TECHNOLOGY

ITEM	SPECIFICATION	ITEM	SPECIFICATION
Model	SG0814	Efficient	2500sq.m/h
Engine	13hp, 390cc, gasoline	Engine type	Single cylinder, 4stroke, OHV, forced air cooling
Transmission	3forward+1reverse	Net Power(kw/3600r/min)	8.2
Cutting width	860mm	Torque(Nm/r/min)	25.1/2500
Blade	"Y" 46pcs	Starting system	Recoil starter
Cutting height	200mm-1500mm	Air cleaner	Semi-dry, dual element
Weight	145kg	Oil capacity	1.1L
Track	25pcs, 2pcs	Fuel tank capacity	6.5L