

PRORUN®

GAS///

**SELF-PROPELLED
LAWN MOWER
MODEL: PLM19621SP**

OPERATOR'S MANUAL

**IMPORTANT! ENGINE
REQUIRES OIL BEFORE
OPERATION**



Before using, read the instructions.

⚠ IMPORTANT – READ CAREFULLY BEFORE USE.

⚠ IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS



WARNING: To reduce the risk of injury, the user must read and understand the User manual before using this product. Keep these instructions for future reference.

Please let us know what you think. To leave a comment and see our complete product line,

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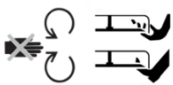
1. PRODUCT SPECIFICATION

Model	PLM19621SP
Engine Type	LC1P70FC (196CC)
Nominal power kW/2900rpm	3.0Kw
Self-Propelled	Yes
Blade identification	20087159
Blade Width	53 mm 2.09 inches
Blade Length	21 mm 0.87 inches
Rated Speed	2900min
Grass catcher capacity	65L
Spark Plug	270960025-0001
Oil Filter	170870094-0001
Height adjustment:	25~75 mm 0.98~2.95 inches 7 position
Weight	37.6kg
Gross Weight	40.8kg
Tank Volume L	1.5lbs
Oil capacity	0.55L
Recommended Oil	10W-30 Varying Temps SAE30 Warmer Temps
Variable speed mower km/h	2.8kmph - 3.8kmph
Non-variable self-propelled speed km/h	N/A
Sound Pressure Level at the operator's position (According to EN ISO 5395-1 Annex F & EN ISO 5395-2, EN ISO 4871)	84.7db(A) K =3 K db(A)
Measured sound power level Guaranteed sound power level (According to 2000/14/EC)	96.9 db(A) K =1.28 db(A) 98 db(A)
Vibration (According to EN ISO 5395-1 Annex G & EN ISO 5395-2)	4.28/4.59 m/S (left /right handle)

2. TABLE OF CONTENTS

1. PRODUCT SPECIFICATION	2
2. TABLE OF CONTENTS	3
3. SYMBOLS	4
4. IMPORTANT SAFETY INSTRUCTIONS	5
5. PARTS DESCRIPTION	10
6. ASSEMBLY	11
7. “3 IN 1” FEATURE DESCRIPTION	12
8. OPERATING INSTRUCTIONS	13
9. MAINTENANCE INSTRUCTIONS	17
10. LUBRICATION INSTRUCTIONS	19
11. CLEANING	19
12. STORAGE INSTRUCTIONS (OFF SEASON)	20
13. TROUBLE SHOOTING	22
14. EXPLODED VIEW AND PARTS LIST	23

3. SYMBOLS

	Read the User's Manual It is important that you read, fully understand and observe the following safety precautions and warnings. Read the instruction manual and the safety precautions periodically.
	Beware of Thrown Objects Watch out for thrown objects and ricochets to reduce the risk of serious or fatal injury to the operator or bystanders. Keep Bystanders Away Keep the area of operation clear of all people, particularly small children. The distance between the machine and bystanders shall be at least 50 feet (15m).
	Keep Bystanders Away Keep the area of operation clear of all people, particularly small children.
	Keep hands and feet away from the blades Beware of sharp blades. The blade can still be moved even though the power is switched off.
	Wear Eye and Ear Protection To reduce the risk of injury to you, always wear safety goggles or safety glasses, sound barriers when operating this product.
	Steep Slope Hazard Exercise extreme caution when operating on slopes.

4. IMPORTANT SAFETY INSTRUCTIONS

WARNING DEFINITIONS

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

 **DANGER!** Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING!** Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION!** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

 **NOTE** Addresses practices not related to personal injury.

SAVE THESE INSTRUCTIONS

This manual contains important instructions that should be followed during setup, operation, and maintenance of the chainsaw.

 **WARNING!** When using petrol tools, basic safety precautions, including the following, should always be followed to reduce the risk of serious personal injury and/or damage to the unit. Read all these instructions before operating this product and retain these instructions for future reference.

 **WARNING!** This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

GENERAL INFORMATION

- Read, understand, and follow instructions and warnings in this manual and on the machine, engine and attachments.
- Only allow operators, who are responsible, trained, familiar with the instructions, and physically capable to operate the machine.
- Do not carry passengers and keep bystanders away.
- Do not operate the machine while under the influence of alcohol or drugs.

Follow the manufacturer's recommendation for wheel weights or counterweights.

PREPARATION BEFORE OPERATING

- Clear the operating area of any objects which could be thrown by or interfere with operation of the machine.
- Keep the area of operation clear of all bystanders, particularly small children. Stop the machine and attachment(s) if anyone enters the area.

- Do not operate the machine without the entire grass catcher, discharge chute, or other safety devices in place and functioning properly. Check frequently for signs of wear or deterioration and replace as needed.
- Wear appropriate personal protective equipment such as safety glasses, hearing protection, and footwear.
- Need to keep bystanders away when mowing.
- While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Thoroughly inspect the area where the equipment is to be used and remove all objects, such as stones, toys, sticks and wires, which can be thrown by the machine.

⚠ WARNING! Petrol is highly flammable.

- 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.
- Replace faulty silencer.
- 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.

OPERATION

- Only operate the engine in well-ventilated areas. Exhaust gases contain carbon monoxide, a deadly poison.
- Only operate the machine in daylight or good artificial light.
- Avoid holes, ruts, bumps, rocks, or other hidden hazards. Uneven terrain could overturn the machine or cause operators to lose their balance or footing.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Do not direct discharge material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces.
- Do not leave a running machine unattended. Always Park on level ground, disengage the attachment. Set parking brake, and stop engine
- Do not mow in reverse unless necessary. Always look down and behind before and while backing.
- When moving, wear glasses, earmuffs, tight long-sleeved trousers, non-slip boots and other warning words.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.

⚠ WARNING! Do not use the lawnmower when there is a risk for lighting.

- In addition to limiting the use time, there are also earmuffs. Gloves can reduce the harm of machine noise vibration to the human body.

- Be careful when using the lawnmower on slopes and near drop-offs, ditches or embankments.
- Mow only in daylight or in good artificial light.
- Avoid operating the equipment in wet grass, where feasible.
- Always be sure of your footing on slopes.
- Walk, never run.
- For wheeled rotary machines, mow across the face of slopes, never up and down.
- Exercise extreme caution when changing direction on slopes.
- Do not mow excessively on steep slopes.
- Use extreme caution when reversing or pulling the lawn mower towards you.
- Stop the blade(s) if the lawn mower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawn mower to and from the area to be mowed.
- Never operate the lawn mower with defective guards, or without safety devices, for example deflectors and/or grass catchers, in place.

⚠ CAUTION! The lawnmower shall not be operated without either the entire grass catcher or self-closing discharge opening guard in place.

- Do not change the engine governor settings or overspeed, the gasoline engine rotate speed is 2900 ± 100 r/min.
- Do not alter or tamper with any sealed adjustment for the engine speed control.
- The lawnmower safety systems or features shall not be tampered with or disabled.
- Start the engine carefully according to instructions and with feet well away from the blade(s).
- Do not tilt the lawn mower when starting the engine.
- 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.
- Never pick up or carry a lawn mower while the engine is running.
- 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 lawn mower.
- After striking a foreign object. Inspect the lawnmower for damage and make repairs before restarting and operating the lawn mower.
- If the lawn mower starts to vibrate abnormally (check immediately).
- 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 lawn mower.
- Before refueling.

CHILDREN SPECIFIC

- 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 operating area and under the watchful care of a responsible adult other than the operator.

SLOPE SPECIFIC

Slopes are a major factor related to accidents, Operation on slopes requires extra caution.

- Travel in the manufacturer recommended direction on slopes. Use caution while operating near drop-offs.
- Do not operate machine under any condition where traction, steering, or stability is in question. Tires could slide even if the wheels are stopped.
- Always keep the machine in gear when going down slopes. Do not coast downhill.
- Avoid starting and stopping on slopes. Avoid making sudden changes in speed or direction. Make turns slowly and gradually.
- Use extra care while operating machine with a grass catcher or other attachment(s), They can affect the stability of the machine.

FIRE AND FUEL SPECIFIC

- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Use only an approved fuel container.
- Do not remove fuel cap or add fuel with the engine running or while hot.
- Do not refuel indoors or in enclosed spaces.
- Do not store the machine or fuel container, or refuel, where there is an open flame, spark, or pilot light such as on a water heater or other appliance.
- If fuel is spilled, do not attempt to start the engine and avoid creating any source of ignition until fuel vapors have dissipated.
- To help prevent fires: keep machine free of grass, leaves, or other debris build up; clean up oil or fuel spillage and remove any fuel-soaked debris; allow machine to cool before storing.
- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.

HAULING

- Use full-width ramps for loading and unloading a machine for transport.

SERVICE

- Keep the machine in good working order. Replace worn or damaged parts.
- Use caution when servicing blades. Wrap the blade(s) or wear gloves. Replace damaged blades. Do not repair or alter the blade(s).
- Machines with hydraulic pumps, hoses, or motors; and/or diesel injection systems:

⚠WARNING! Fluid escaping under pressure may have sufficient force to penetrate skin and cause serious injury. If fluid is injected into the skin, seek immediate medical attention. Keep body and hands away from pin holes or nozzles that eject fluid under high pressure. If a leak occurs, have the machine immediately serviced by a trained technician.

- If equipped, disconnect spark plug wire(s) and the negative battery cable before making any repairs.

MAINTENANCE AND STORAGE

- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Never store the equipment with petrol in the tank inside a building where fumes can reach an open flame or spark.

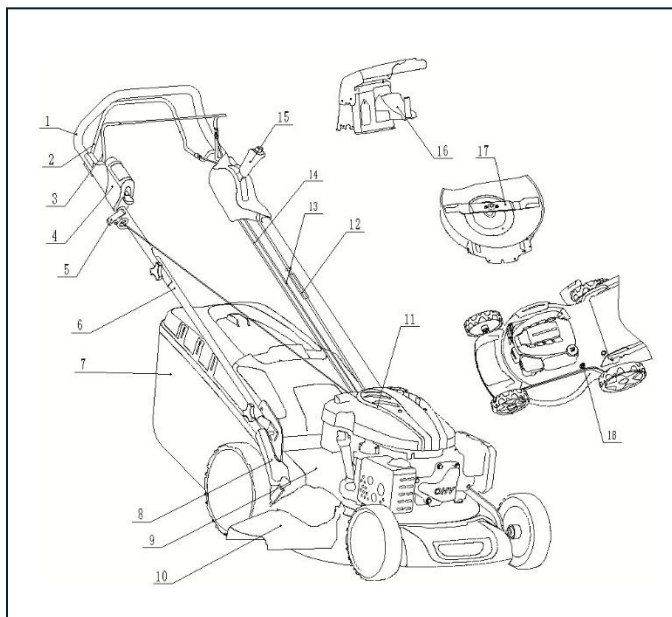
- Allow the engine to cool before storing it in any enclosure. Clean and maintain the lawnmower before storage.
- To reduce the fire hazard, keep the engine, silencer, battery compartment and petrol storage area free of grass, leaves, or excessive grease.
- Check the grass catcher frequently for wear or deterioration.
- Replace worn or damaged parts for safety.
- If the fuel tank has to be drained, this should be done outdoors.
- Improper maintenance, use of non-conforming replacement components, or the removal or modification of safety components can damage the lawnmower and injure the operators seriously.
- Only use the recommended blades and spare parts by the manufacturer. The use of non-genuine parts can damage the machine and injure the operators. Keep the lawnmower in good working condition.
- If the blade stopping device doesn't work, please contact the service center for help.

⚠WARNING! Do not touch the rotating blade

⚠WARNING! Refuel in a well-ventilated area with the engine stopped.

⚠WARNING! If the mower is started by electricity The key be removed when it is used up.

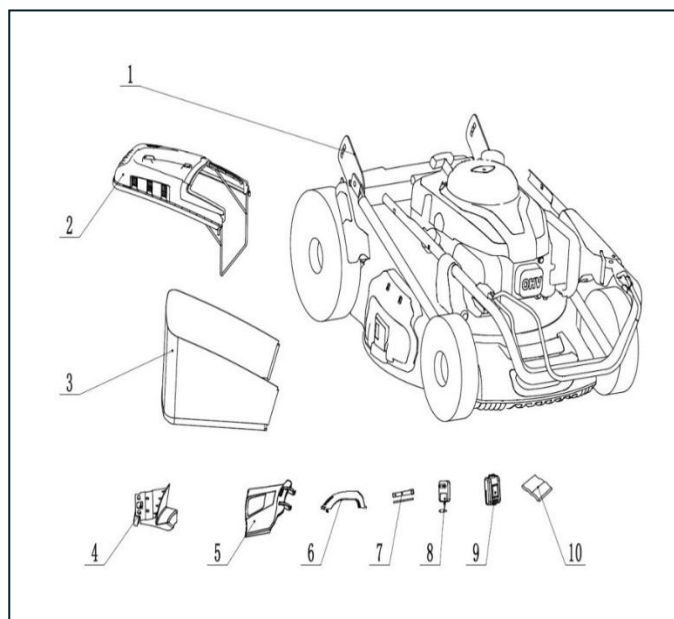
5. PARTS DESCRIPTION



1. Upper handle
2. Drive lever (if equipped)
3. Brake lever
4. Electric start switch (if equipped)
5. Starter handle (if equipped)
6. lower handle
7. Grass catcher
8. Height adjusting lever
9. Deck
10. Side discharge chute (if equipped)
11. Gasoline engine
12. Variable speed cable (if equipped)
13. Flameout cable
14. Walking cable (if equipped)
15. Variable speed handle (if equipped)
16. Chute flap
17. Blade
18. Water nozzle

3.1 Unpacking

- 1 When unpacking the machine take care to gather all individual parts and fittings, and do not damage the desk cutting when taking the machine off the pallet.



- 1 Lawn mower
- 2 Frame
- 3 Grass catcher
- 4 Chute flap
- 5 Side discharge chute (if equipped)
- 6 Handle of catcher bag
(screw st5*16 1pc)
- 7 Spark plug tool
- 8 Battery charger (if equipped)
- 9 Battery bag (if equipped)
- 10 Instruction manual

6. ASSEMBLY

5.1 FOLDING HANDLE

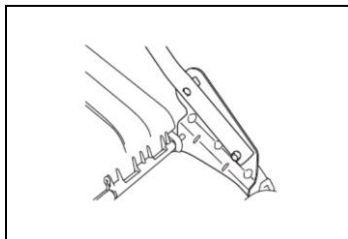


Fig. 2A

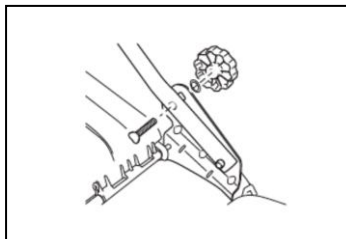


Fig. 2B

1. Use the bolt, washer and locking knob to fix the lower handlebars into the unit body. (Fig. 2A/2B)

5.2 FIXING THE UPPER HANDLE

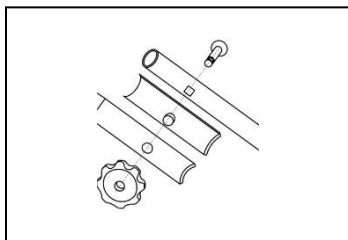


Fig. 3A

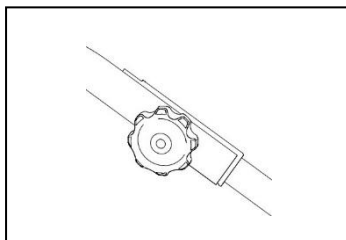


Fig. 3B

- A. Use bolts to pass through the upper and lower hand and the insulating sleeve in turn according to Fig.3A.

- B. Tighten the knob to connect the upper and lower handrail. Fig.3B

5.3 MOUNTING AND DISMOUNTING THE GRASS CATCHER

1. To fit: lift the rear discharge guard and fit the grass catcher. (Fig. 4A/4B/4C)
2. To remove: Lift rear discharge guard, put in the grass catcher.

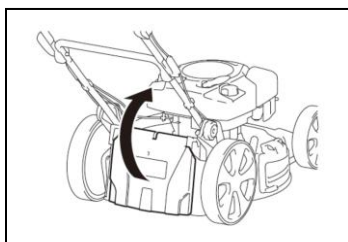


Fig. 4A

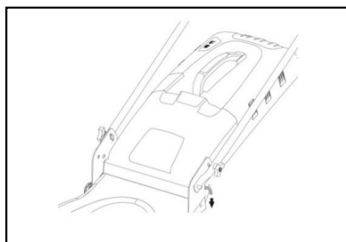


Fig. 4B

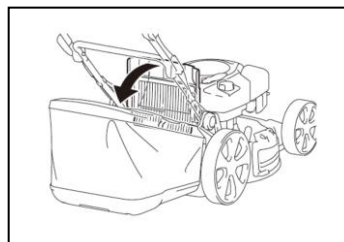


Fig. 4C

5.4 STARTER HANDLE

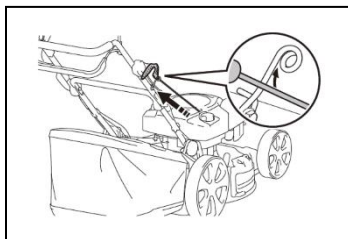


Fig. 5

- Move the starter handle from the engine to the rope guide. Fig.5

5.5 HEIGHT OF CUT

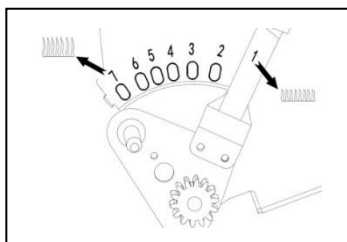


Fig. 6A

Apply outward pressure to disengage lever from rack.
Move lever forward or back to adjust height. (Fig.6A/6B)

Fig. 6B

7. "3 IN 1" FEATURE DESCRIPTION

6.1 Grass collector function

6.1.1 Lift the rear discharge guard, assemble the grass catcher. Fig. 7A/ 7B

6.1.2 Make sure that the side discharge guard is lowered and blocked by the safety lever Fig. 7C

6.1.3 Start the engine and go to work.

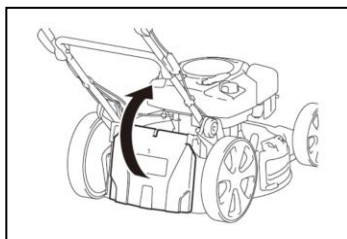


Fig. 7A

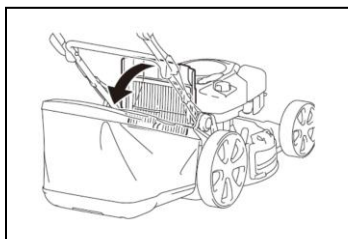


Fig. 7B

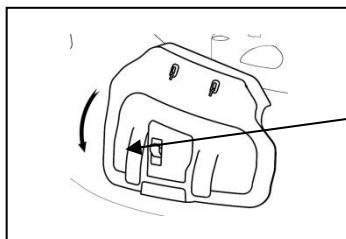


Fig. 7C

Safety Lever

6.2 The side discharge function (if applicable)

6.2.1 Turn the Rear protective plate, assemble the chute flap and close the rear discharge guard; Fig. 8A/B/C.

6.2.2 Push the safety lever slightly and open the side discharge guard, Insert the side discharge chute; Fig. 8D/E/F

6.2.3 Start the engine and go to work.

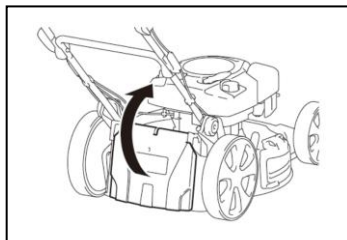


Fig. 8A

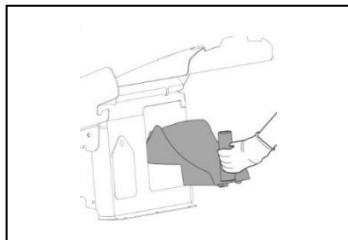


Fig. 8B

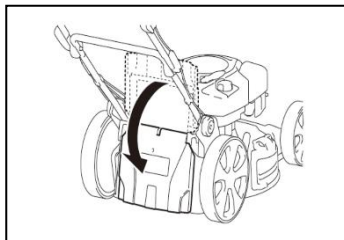


Fig. 8C

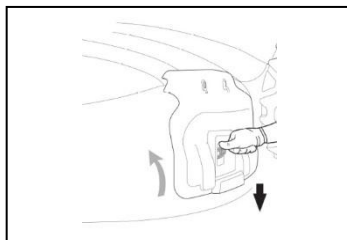


Fig. 8D

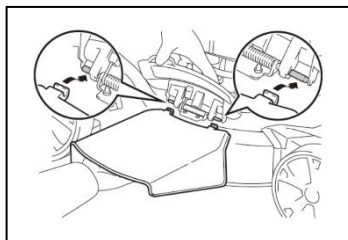


Fig. 8E

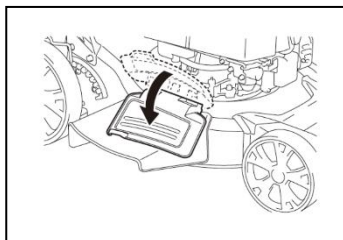


Fig. 8F

6.3 Mulching function:

6.3.1. Lift the rear discharge guard, assemble the chute flap and close the rear discharge guard;
Fig.9A/B/C

6.3.2 On models with a side discharge: make sure that the side discharge guard is lowered and blocked by the safety lever.

Fig. 9D

6.3.3. Start the gasoline engine and go to work.

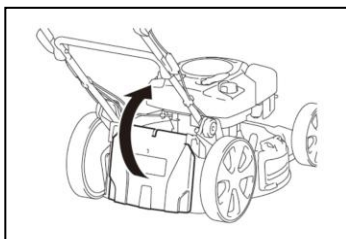


Fig. 9A

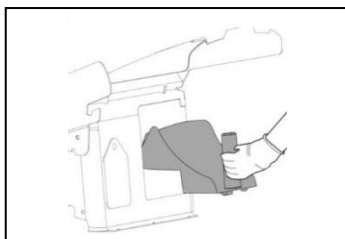


Fig. 9B

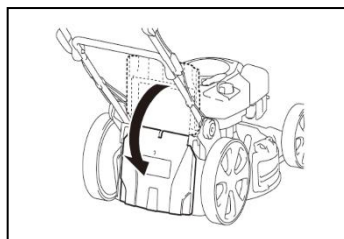


Fig. 9C

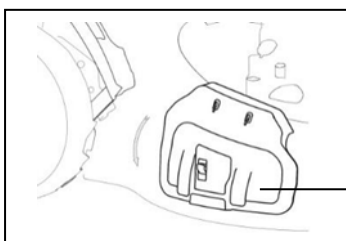


Fig. 9A

Safety Lever

Remark: The 3-in1 feature is only available for TLM046/051/053SM series mower.

WARNING! The above operations must be carried out with the engine stopped.

8. Operating Instructions

7.1 Before Starting

CAUTION! This engine is shipped from factory without oil. Check oil level before starting engine. If you start the engine without oil, the engine will be damaged beyond repair and will not be covered under warranty.

- Check the engine oil level with the engine stopped and in a level position.
Fig.10A/10B/10C.
- Remove the oil filler cap/dipstick and wipe it clean.

- Insert the oil filler cap/dipstick into the oil filler neck as shown, but do not screw it in, then remove it to check the oil level. If the oil level is near or below the lower limit mark on the dipstick, fill with the recommended oil to the upper limit mark. Do not overfill. Reinstall the oil filler cap/dipstick.

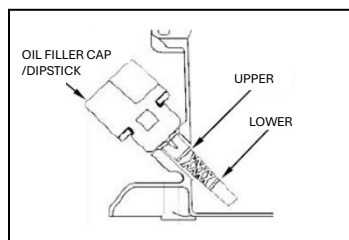


Fig. 10A

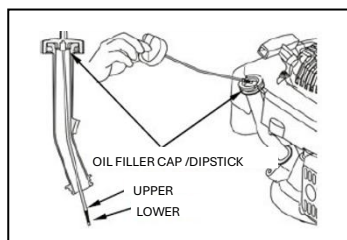


Fig. 10B

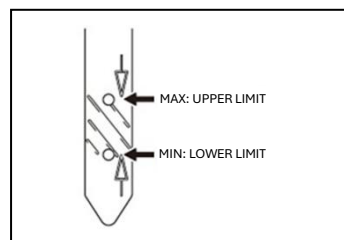
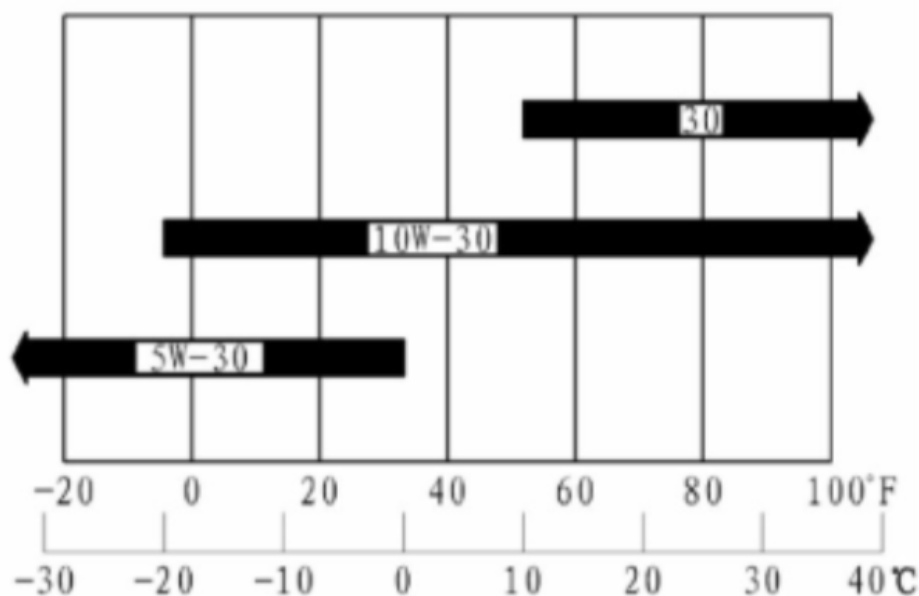


Fig. 10C

Start at Engine Oil recommendations

Oil is a major factor affecting performance and service life. Use 4-stroke automotive detergent oil. SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the recommended range.

SAE Viscosity Grades



AMBIENT TEMPERATURE

The SAE oil viscosity and service classification are in the API label on the oil container. We recommend that you use API Service Category SE or SF oil.

⚠ WARNING! Petrol is highly flammable.

Store fuel in containers specifically designed for this purpose.

Refuel outdoors only, before starting the engine and do not smoke while refueling or handling fuel.

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 tanks and container caps securely.

Before tipping the lawn mower to maintain the blade or drain oil, remove fuel from the tank.

⚠ WARNING! Never fill fuel indoors, with engine running or until the engine has been allowed to cool for at least 15 minutes after running.

7.2 To start engine

1. When starting cool engine, please press the air pump 1 to 3 times , Fig .11A
2. Pull the engine brake lever towards the handle ; Fig.11B.
3. Grab hold of the starter handgrip and tug the starter cable firmly to start the engine, at this point, the blade rotates with the gasoline engine; Fig.11C
4. Push the drive lever, so the mower will drive which can be speeds from 3.6km/h (no variable speed system). Fig.11D
5. If the mower has equipped a multi-pole variable speed system which can be speeds from 2.8km/h to 3.8km/h.Fig.11E
6. The variable speed handle can change the travel speed of the mower. Fig.11E
7. If you stop working or start the engine, please put the variable speed handle in the  . Fig .11F

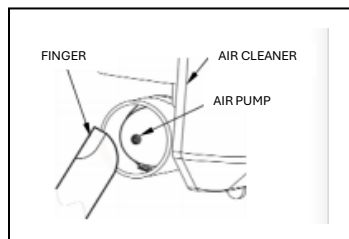


Fig. 11A

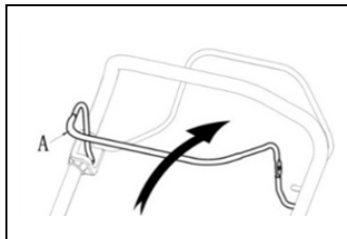


Fig.11B

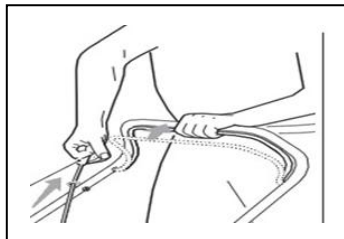


Fig. 11C



Fig. 11D

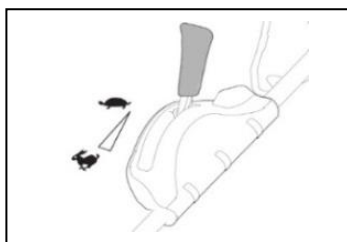


Fig. 11E

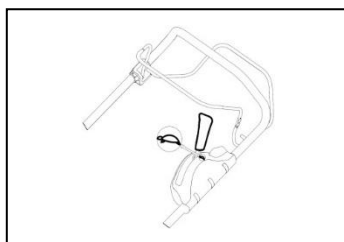


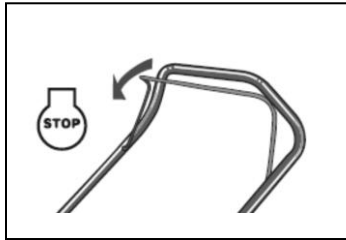
Fig. 11F

Special reminder:

- 1 Press the air pump 1-3 times when you are starting the cold engine.
- 2 If the start of the hot engine after work can be started directly, do not press the air pump or press the air pump once.

7.4 TO STOP ENGINE

⚠CAUTION! The blade continues to rotate for a few seconds after the engine is shut off.



1. Release the brake lever to stop the engine and blade. (Fig.13)
2. Disconnect and ground the spark plug wire as instructed in the separate engine manual to prevent accidental starting while equipment is unattended.

Fig. 13

⚠CAUTION! Your mower is designed to cut normal residential grass of a height no more than 250mm.

Do not attempt to mow through unusually tall dry or wet grass (e.g., pasture) or piles of dry leaves. Debris may build up on the mower deck or contact the engine exhaust presenting a potential fire hazard.

7.5 FOR THE BEST RESULTS WHEN MOWING

Clear lawn of debris. Be sure that the lawn is clear of stones, sticks, wire or other foreign objects which could be accidentally thrown out by the mower in any direction and cause serious personal injury to the operator and others as well as damage to property and surrounding objects. Do not cut wet grass. For effective mowing do not cut wet grass because it tends to stick to the underside of the deck preventing proper mowing of the grass clippings. Cut no more than 1/3 the length of the grass. The recommended cut for mowing is 1/3 the length of the grass. Ground speed will need to be adjusted so the clippings can be dispersed evenly into the lawn. For especially heavy cutting in thick grass it may be necessary to use one of the slowest speeds in order to get a clean well mowed cut. When mowing long grass you may have to cut the lawn in two passes, lowering the blade another 1/3 of the length for the second cut and perhaps cutting in a different pattern than was used the first time. Overlapping the cut a little on each pass will also help to clean up any stray clippings left on the lawn. The mower should always be operated at full throttle to get the best cut and allow it to do the most effective job of mowing. Clean underside of deck. Be certain to clean the underside of the cutting deck after each use to avoid a build-up of grass, which would prevent proper mulching. Mowing leaves. The mowing of leaves can also be beneficial to your lawn. When mowing leaves make sure they are dry and are not laying too thick on the lawn. Do not wait for all the leaves to be off the trees before you mow.

⚠WARNING! if you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

7.6 GRASS CATCHER

There is a level indicator on the top of the grass catcher that shows whether the catcher is empty or full:

- The level indicator inflates if the catcher is not full during the moving. (Fig. 14B)
- If the catcher is full, the indicator collapses; once this happens, stop moving immediately and empty the catcher, make sure it is clean and ensure its meshwork is ventilated. (Fig. 14A)

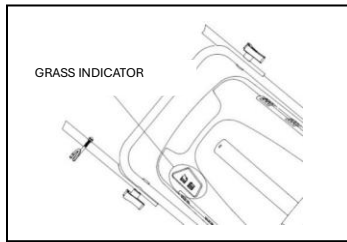


Fig. 14A

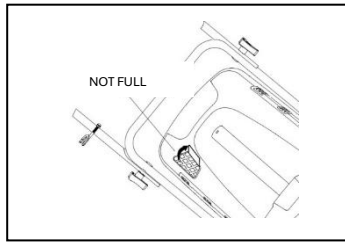


Fig. 14B

⚠ IMPORTANT! If the position of indicator opening is very dirty, the indicator will not inflate-in this case, clean the position of indicator opening immediately.

7.7 DECK

The underside of the mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt or other matter. If this debris is allowed to accumulate, it will invite rust and corrosion and may prevent proper mulching. The deck may be cleaned by tilting the mower and scraping clean with a suitable tool (make certain the spark plug wire is disconnected).

7.8 HEIGHT ADJUSTMENT INSTRUCTIONS

⚠ CAUTION! Do not at any time make any adjustment to the lawnmower without first stopping the engine and disconnecting the spark plug wire.

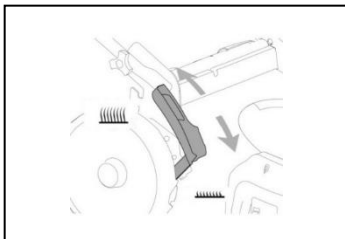


Fig. 15

⚠ CAUTION! Before changing mowing height, stop mower and disconnect spark plug cable.

Your mower is equipped with a central height adjustment lever offering 7 height positions.

The height (the blade to the ground) can be adjusted from 25mm to 75mm (7 height positions). (Fig.15)

The lowest adjustment : 25mm (position 1), the highest

adjustment : 75mm (position 7).

1. Stop mower before changing mower cutting height.

To change the height of cut, squeeze adjuster lever toward the wheel, moving up or down to selected height.

9. MAINTENANCE INSTRUCTIONS

8.1 SPARK PLUG

Use only original replacement spark plug. For best results, replace the spark plug every 30 hours of use.

8.2 BRAKE PADS

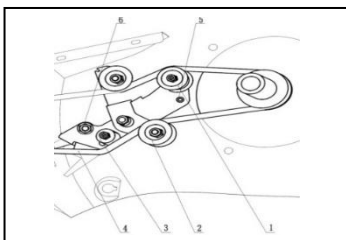
Check and/or replace the engine brake pads in service agent regularly, only original parts can be used as replacement.

8.3 BELT TENSIONING MECHANISM

Belt tensioning mechanism maintenance: The tensioning mechanism should be maintained every year after the mower is used. The maintenance contents are as follows. Fig .16

1) Remove the belt guard. inspect the belt for excessive wear. replace if worn.

- 2) Check whether the tension pulley and fixed tensioning wheel (tensioning bearing) are damaged, whether the rotation is flexible, and replace it if damaged.
- 3) Check whether the fastening bolts or nuts are loose. if so, please tighten it. If necessary, apply the thread glue.
- 4) Check for looseness of No5 and No6. If so, please tighten it.



1. Fixed tensioning wheel
2. Tension pulley
3. Tension bearing
4. Belt
5. bolt -M8
6. Nut -M8

Fig. 15

8.4 SPEED CHANGE CABLE ADJUSTMENT:

If the various speed handle in the lowest speed position and it feels that the handle cable has no pulling force, indicating that the cable cap is too big and needs to be adjusted. The adjustment method follows:

- 1) Place the various speed handle in the position indicated  (the position of lowest speed); Fig.17A
- 2) Use the wrench to release the M8 screw sleeves until the cable is slightly tensioned and tighten the screw nut.Fig.17B

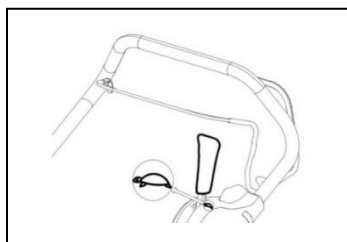


Fig. 17A

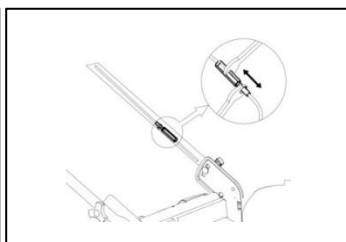


Fig. 17B

8.5 lawn mower maintenance

Engine		Before each use	First month or 5 hours	Every 3 months or 25 hours	Every 6 months or 50 hours	Every year or 100 hours
Gasoline Engine oil	Check level	*				
	Change		*		*	
Air Cleaner	Check	*				
	Clean			*		
	Replace					*
Spark Plug	Check clean				*	
	Replace					*
Valve Clearance	Check the adjustment			*		*
Fuel line	Check	Every 2 Years				
Machine						

Check the blade, fastening bolt and blade sharpness			*		
Re place the blade					*
Check the belt			*		
Replace the belt				*	
Speed change cable is adjustment			*		
Tensioner inspection				*	
Tensioner replacement	Every 2 years or 100 hours				

1) If the machine is operating continuously, replace the belt every 30 hours.

2) If the working environment is dusty, please clean the air filter once a day.

Start the engine carefully according to instructions and with feet well away from the blade.

Do not tilt the lawn mower when starting the engine. Start the mower on a level surface, free of high grass or obstacles.

Keep hands and feet away from the rotating parts. Do not start the engine when standing in front of the discharge opening.

8.6 If there is no automatic walking function after driving, maybe it's the belt is stuck by the belt pulley of the gearbox and there is not back in position.

Troubleshooting methods: With the engine running, running it back and forth from high speed to low speed several times

(operate part 15 in fig.1).

10. LUBRICATION INSTRUCTIONS

⚠CAUTION! DISCONNECT SPARK PLUG BEFORE SERVICING.

1. WHEELS-Lubricate the ball bearings in each wheel at least once a season with light oil.
2. ENGINE-Follow engine manual for lubrication instructions.

11. CLEANING

⚠CAUTION! Do not hose engine. Water can damage engine or contaminate the fuel system.

10.1. Wipe deck with dry cloth.

10.2. Insert the hose and turn on the water tap to clean the lower part of the deck. The position of the water pipe joint is shown in Fig.1 No. 18.

⚠CAUTION! Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blades. Tip mower as specified in separate engine manual. Remove the hex bolt and washer which hold the blade and blade adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

⚠WARNING! Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace it when necessary.

For best results your blade should be sharp. The blade may be re-sharpened by removing it and either grinding or filing the cutting edge keeping as close to the original bevel as possible. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. Improper blade balance will result in excessive vibration causing eventual damage to the engine and mower. Be sure to carefully balance blade after sharpening. The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Install the blade adapter on the crankshaft. Refer to figure 18A/18B/18C. Place the blade with the part number facing away from the adapter. Align the washer over the blade and insert the hex bolt. Tighten the hex bolt to the torque listed below:

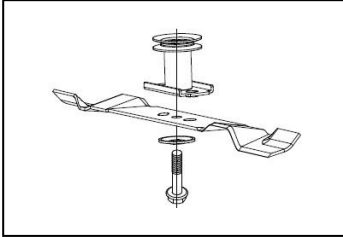


Fig. 18A (Self-Propelled)

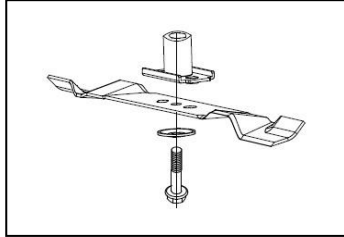


Fig. 18B (Push)

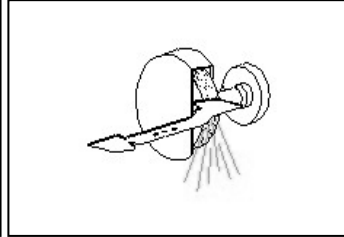


Fig. 18C

10.3 BLADE MOUNTING TORQUE

Center Bolt **40-45 N.m.**, to insure safe operation of your unit. ALL nuts and bolts must be checked periodically for correct tightness.

After prolonged use, especially in sandy soil conditions, the blade will become worn and lose some of the original shape. Cutting efficiency will be reduced and the blade should be replaced. Replace with an approved factory replacement blade only. Possible damage resulting from blade unbalance conditions is not the responsibility of the manufacturer.

When you change the blade, you must use the original blade type which is shown in technical data sheet. (For order the blade, pls. contact your local dealer.)

10.4 ENGINE

Refer to the separate engine manual for engine maintenance instructions.

Maintain engine oil as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service air cleaner as per separate engine manual under normal conditions.

Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service the air cleaner, refer to the separate engine manual packed with your unit.

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season, check engine manual for correct plug type and gap specifications.

Clean the engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation which is essential to engine performance and life. Be certain to remove all grass, dirt and combustible debris from the muffler area.

12. STORAGE INSTRUCTIONS (OFF SEASON)

The following steps should be taken to prepare a lawn mower for storage.

1. Empty the tank after the last mowing of the season.
 - a. Empty the petrol tank with a suction pump.

⚠CAUTION! Do not drain the petrol in closed rooms, in proximity of open fire, etc. Do not smoke! Petrol fumes can cause explosions or fire.

- b. Start the engine and let it run until it has used up all remaining petrol and stalls, this operation is very important, otherwise, placing the mower for a long time will mark it very difficult to restart.
- c. Remove the spark plug. Use an oilcan to fill approx. 20 ml oil into the combustion chamber. Operate the starter to evenly distribute the oil in the combustion chamber. Replace the spark plug.
2. Clean and grease the lawnmower carefully as described above under "Lubrication".
3. Slightly grease the cutter to avoid corrosion.
4. Store the lawnmower in a dry, clean and frost-protected place, out of reach of unauthorized persons.

⚠ CAUTION! The engine must have completely cooled down before storing the lawnmower.

NOTE When storing any type of power equipment in an unventilated or material storage shed.

- Care should be taken to rust-proof the equipment. Using light oil or silicone, coat the equipment, especially cables and all moving parts.
- Be careful not to bend or kink cables.
- If the starter rope becomes disconnected from rope guide on handle, disconnect and ground the spark plug wire, Depress the blade control handle and pull the starter rope out from engine slowly. Slip the starter rope into the rope guide bolt on handle.

Transport

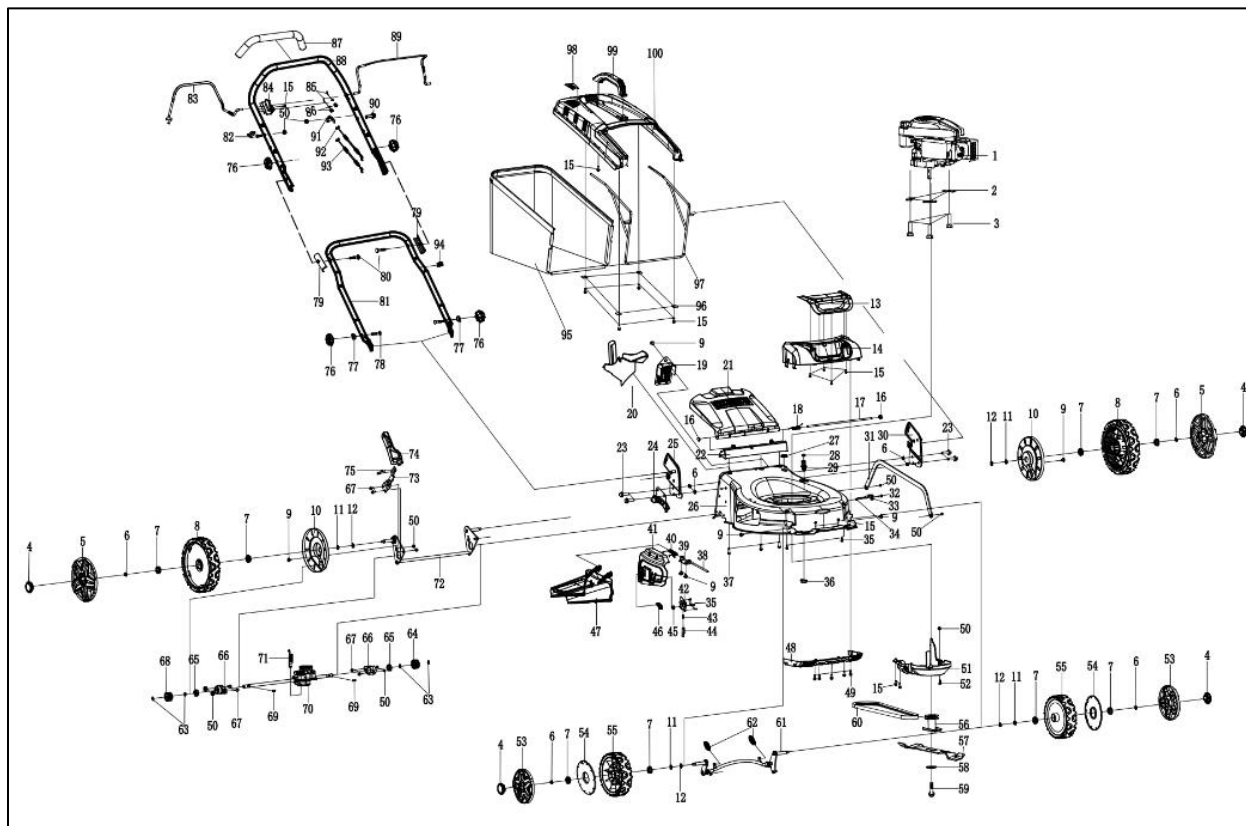
Turn the engine off and allow the engine to cool down. Then disconnect the spark plug wire and empty the fuel tank according to the instructions in the engine manual. Ensure you not to bend or damage the cutter when pushing the lawnmower over obstacles.

Secure the lawnmower during transport to prevent loss of fuel, damage or injury.

13. TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Gasoline engine does not start.	Fuel tank is empty.	Fill tank with fuel: refer to ENGINE OWNERS MANUAL.
	Air cleaner element is dirty.	Clean air cleaner element: refer to ENGINE OWNERS MANUAL.
	Spark plug loose.	Tighten spark plug to 20-25 Nm.
	Spark plug wire loose or disconnected from plug.	Install spark plug wire on spark plug.
	Spark plug gap is incorrect.	Set gap between electrodes at 0.7 to 0.8mm.
	Spark plug is defective	Set gap between electrodes at 0.7 to 0.8mm.
	Spark plug is defective	Install new, correctly gapped plug: refer to ENGINE OWNERS MANUAL.
	The carburetor air pump is not pumping	The air pump is pressed for 1-3 times.
	Faulty ignition module.	Contact the service agent.
Engine difficult to start or loses power.	Dirt, water, or stale fuel tank.	Drain fuel and clean tank. Fill tank with clean, fresh fuel.
	Vent hole in fuel tank cap is plugged.	Clean or replace fuel tank cap.
	Air cleaner element is dirty.	Clean air cleaner element.
Engine idles poorly.	Air cleaner element is dirty.	Clean air cleaner element: refer to ENGINE OWNERS MANUAL.
	Air slots in engine shroud are blocked.	Remove debris from slots.
	Cooling fins and air passages under engine blower housing are blocked.	Remove debris from cooling fins and air passages.
Engine skips at high speed.	Gap between electrodes of spark plug is too close.	Set gap between electrodes at 0.7 to 0.8mm
Engine overheats	Cooling air flow is restricted.	Remove any debris from slots in shroud, blower housing, air passages.
	Incorrect spark plug.	Install the original spark plug and cooling fins on engine.
Mower vibrates abnormally	Cutting assembly is loose.	Tighten blade.
	Cutting assembly is unbalanced	Balance blade.

14. EXPLODED VIEW AND PARTS LIST



NO.	Description	Qty	Part #
1	Engine	1	20096259
2	fixing plate	3	20074876
3	Combination bolt M8×30	3	20075009
4	Small wheel cover	4	20075242
5	Rear Wheel cover (10")	2	20074964
6	Nut M8	8	20061348
7	Bearing	8	20062133
8	Rear wheel	2	20075233
9	Nut L221A	7	20062115
10	Dust wheel cover 10"	2	20075244
11	Wave washers c14×0.4	4	20061499
12	Washer c12.7×0.8	4	20074879
13	front cover	1	20087229
14	Head mask of deck	1	20077392
15	Screw	14	20060935
16	Plug	2	20075180
17	Axis	1	20074875
18	Torsion spring	1	20074867
19	Ventilation window	1	20075192
20	Grass blocking cover	1	20086509
21	Rear deflector	1	20074958
22	Dust strip	1	20077408
23	Blot	4	20061274

24	Gear plate	1	20075157
25	Right bracket	1	20075161
26	deck	1	20077424
27	Jacket	1	20075191
28	O-ring	1	20055756
29	Pipe connector	1	20074862
30	Left -bracket	1	20075160
31	Cutting height rod	1	20077416
32	screw	1	20060984
33	Pressure plate	1	20075165
34	nut	1	20061341
35	Screw ST4.8×8	6	20051788
36	Nut M14×1.5 PA6	1	20075189
37	Self-tapping screws 5/16"-14 l=16mm	3	20074967
38	Axis	1	20074874
39	bracket	1	20075170
40	Torsion spring	1	20074866
41	Side row grass cover	1	20077394
42	Cover	1	20075190
43	spring	1	20074865
44	Limit plate	1	20075256
45	Gear	1	20075167
46	Operating handle	1	20075168
47	Side protective cover	1	20077415
48	Lower lid	1	20077402

49	screw	14	20060935
50	Nut M6	11	20061385
51	belt guard	1	20077412
52	bolt	1	20061301
53	Front wheel disc 8"	2	20075250
54	Middle wheel cover	2	20077359
55	Front wheel 8"	2	20075238
56	Blade adapter	1	20086096
57	Blade	1	20087159
58	Flat washer	2	20062130
59	blade fixing bolt	1	20091553
60	belt	1	20077202
61	Front axle	1	20077399
62	Spring	2	20074868
63	retaining ring	4	20061490
64	Left driving gear	1	20074896
65	Bearing	2	20074887
66	Ball bearing support	2	20074961
67	Screw M6×16	6	20061200
68	Right driving gear	1	20074892
69	gear pin	2	20074888
70	gear box	1	20077205
71	gear spring	1	20074891
72	Rear axle	1	20077409
73	Cutting height lever	1	20075222
74	Handle	1	20075251

75	Screw M5*10	2	20054540
76	Screw with plastic nut	4	20060728
77	Flat washer	2	20062130
78	Screw M8×50	2	20074863
79	Insulation sleeve	2	20075288
80	Screw M8×60	2	20075257
81	U-Inferior handle	1	20077405
82	Rope guide support	1	20074873
83	Coupling lever	1	20075290
84	Limited plate	1	20075197
85	Connection line	2	20075113
86	Insulator	2	20075194
87	Damping sleeve	1	20076424
88	Upper handle	1	20075193
89	brake control handle	1	20075292
90	Screw M6×35	1	20061199
91	Bracket for cable	1	20075645
92	Limited plate	1	20076633
93	Coupling cable	1	20075110
94	Card line block	1	20075011
95	grass collecting bag	1	20093524
96	washer	4	20075246
97	Frame	1	20077327
98	Indicator cover	1	20075236
99	Handle of catcher bag	1	20074960
100	Cover of catcher bag	1	20075235

PRORUN regularly improves our products, and you may find slight differences between your machine and the descriptions contained within this operator's manual. Modifications can be made to the machine without notice and without the obligation to update the manual, providing that the essential safety and functional characteristics remain unaltered. Contact PRORUN Customer Service with any questions and for current specifications.

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