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**No Warranty On Electrical Motor / Electrical Parts / Battery Etc.**

**Incidental / Consequential Loss:** KisanKraft Limited or its manufacturers will not be liable for general damages, including bodily injuries, or for incidental or consequential damages including, but not limited to, loss of use, loss of profits, loss of production, expense of substitute equipment or other commercial loss or damage.

**Limitation of Liability:** This limited warranty is in lieu of all other express warranties, obligations, or liabilities. Any implied warranties, obligations or liabilities, including, but not limited to, any implied warranty of merchantability shall be limited in duration to the applicable warranty period. Any action for breach of any warranty hereunder, including, but not limited to, any implied warranty of merchantability must be brought within the applicable warranty period.

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<b>Our Products</b>	<ul style="list-style-type: none"> <li>◆Chainsaws◆Brush Cutters and Accessories◆Harvesters◆</li> <li>◆Engines and Water Pumps◆Hand Tools ◆ Garden Tools◆</li> <li>◆Cultivators and Accessories◆ Sprayers and Accessories◆</li> <li>◆Transplanter and Post Hole Digger ◆ Milking Machines ◆</li> </ul>
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**This warranty is null & void, if you fail to register the warranty with KisanKraft by sending the KisanKraft Copy with dealer's stamp.**

**KisanKraft Limited** (formerly known as KisanKraft Machine Tools P Ltd)

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Product	<b>LAWN MOWER (PETROL)</b>	KisanKraft Invoice Date	
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Model	<input type="checkbox"/> KK-LMP-6416 <input type="checkbox"/> KK-LMP-6418	<input type="checkbox"/> KK-LMP-6419 <input type="checkbox"/> KK-LMP -6420	
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**Wide Range of Products for Every Need**



For more information give **MISSED CALL: 07676065555**



Many of our products have BIS: ISI certification.



**User Manual**



**KisanKraft Limited**

(Formerly known as KisanKraft Machine Tools Pvt Ltd)

Sri Huchanna Tower, #4, 1<sup>st</sup> Main, 7-A Cross, Maruthi Layout,  
Dasarahalli, HAF Post, Hebbal, Bangalore 560024, Karnataka, INDIA

- ◆ Bangalore (HO) ◆ Ahmedabad ◆ Bhopal ◆ Bhubaneswar ◆ Coimbatore ◆
- ◆ Guwahati ◆ Shimla ◆ Hubli ◆ Hyderabad ◆ Jaipur ◆
- ◆ Karnal ◆ Kolkata ◆ Lucknow ◆ Pune ◆ Raipur ◆

**KisanKraft has a large range of products to serve the farmers. A list of our products is given below:**

<p><b>Brush Cutters and Accessories</b></p> <ul style="list-style-type: none"> <li>Brush Cutter/Power Weeder</li> <li>Backpack Brush Cutter</li> <li>Tea Pruner</li> <li>Pole pruner with Engine</li> <li>Reaper Attachment</li> <li>Blades-Circular</li> <li>Blades (2 &amp;3 points)</li> <li>Baffle</li> <li>Nylon Rope</li> <li>Tap &amp; Go</li> </ul> <p><b>Chainsaws</b></p> <ul style="list-style-type: none"> <li>Petrol Chainsaw</li> <li>Electric Chainsaw</li> <li>Chain Sharpening Machine</li> </ul> <p><b>Engines and Water Pumps</b></p> <ul style="list-style-type: none"> <li>Engine –Diesel-(Horizontal)</li> <li>Engine –Diesel (Vertical)</li> <li>Engine-Kerosene</li> <li>Water Pump with Petrol Engine</li> <li>Water Pump with Kerosene Engine</li> <li>Water Pump with Diesel Engine</li> </ul> <p><b>Hand Tools</b></p> <ul style="list-style-type: none"> <li>Secateurs</li> <li>Folding Saw</li> <li>Garden Rake</li> <li>Garden Shovel</li> <li>Hedge Shear</li> <li>Lopper</li> <li>Telescopic Hedge Shear</li> <li>Telescopic Lopping Shear</li> <li>Tree Pruner</li> <li>Telescopic Steel Pipe &amp; Fruit Picker Bag</li> <li>Sheep Shear</li> </ul> <p><b>Garden Tools</b></p> <ul style="list-style-type: none"> <li>Electric Pressure Washer</li> <li>Hedge Trimmer</li> <li>Lawn Mower (Electric, Petrol &amp; Manual)</li> <li>Leaf Blower</li> </ul>	<p><b>Cultivators and Accessories</b></p> <ul style="list-style-type: none"> <li>Petrol and Diesel</li> </ul> <p><b>Sprayers and Accessories</b></p> <ul style="list-style-type: none"> <li>Battery Sprayer</li> <li>Portable Power Sprayer</li> <li>Trolley Sprayer</li> <li>Manual Knapsack Sprayer</li> <li>Manual Pressure Sprayer</li> <li>Rose Cans</li> <li>Hose Crimping Machine</li> <li>HTP Sprayer</li> <li>HTP Delivery Hose</li> <li>HTP Hose Reel</li> <li>HTP Stand</li> <li>HTP Gun / Lance (Brass Rod)</li> <li>Knapsack Power Sprayer</li> <li>Mister / Duster / Granuel Spreader</li> <li>HTP Sprayer Set with Diesel Engine</li> <li>HTP Sprayer Set with Kerosene Engine</li> <li>Fogging Machine</li> </ul> <p><b>Milking Machine</b></p> <ul style="list-style-type: none"> <li>Wood Shredder</li> <li>Fodder Ensiling Chaff Cutter</li> <li>Fodder Grinder Chaff Cutter</li> <li>Fodder Mini Chaff Cutter</li> </ul> <p><b>Harvester</b></p> <ul style="list-style-type: none"> <li>Maize Sheller</li> <li>Maize Sheller + Dehusker</li> <li>Maize Combine Harvester</li> <li>Onion Digger Carlotti Italy</li> <li>Tea Leaf Harvester</li> <li>Sugar Cane Combine Harvester</li> <li>Sugarcane Leaf Stripper</li> </ul> <p><b>Transplanter and Post Hole Digger</b></p> <ul style="list-style-type: none"> <li>Paddy Transplanter (2 &amp; 8 Rows)</li> <li>Transplanter-Vegetable &amp; Tobacco</li> <li>Post Hole Digger (4" to 14" Augers)</li> </ul>
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Situations	Causes	Remedy
insufficient power	The ignition energy is low.	Replace the igniter or the flywheel.
	The valve clearance is excessive	Adjust or replace relevant parts.
	Carbon is deposited on the cylinder head.	Remove the deposited carbon.
Spitting during operation	Blocked oil path of the carburetor	Replace the carburetor.
	Excessive or insufficient clearance of the spark plug	Adjust the clearance
Abnormal sound	Incorrect clearance of the throttle	Replace relevant parts.
	Damaged cam teeth	Replace the cam shaft
Oil leakage of carburetor	Failure of the non-return valve on fuel tank cap	Replace the non-return vent valve of the fuel tank cap.
	Damaged sealing elements of carburetor	Replace them.

Contact the dealer if the gasoline engine still has problems after inspection and repair based on the methods above.

**TRANSPORTATION AND STORAGE**

Handle with care during loading and unloading; laying upside down and inclined placing are strictly prohibited. The damage due to collision is strictly prohibited during transportation, and it is also required to prevent it from exposure to rain. If the engine is to be stored for a long time and will not be used,

1. Place it at a clean, ventilated, dry and damp-proof place;
2. Completely discharge the fuel in the engine (including the engine oil in the oil-bath type air filter);
3. The effective oil seal period should not be less than 6 months under normal conditions of packaging, transport and storage.

**INSTRUCTIONS FOR UNPACKING**

1. During unpacking, the gasoline engine shall be in the upright state; always handle with care!
2. After unpacking, firstly check for the Packing List, certificates, Warranty Card and Operation Manual. Carefully check and verify whether the real products are in compliance against the Packing List.
3. The gasoline engines provided by our company are of high-quality, environment-friendly and of high performance-price ratio. In case of any trouble encountered or any question during your operation, please contact the dealer.

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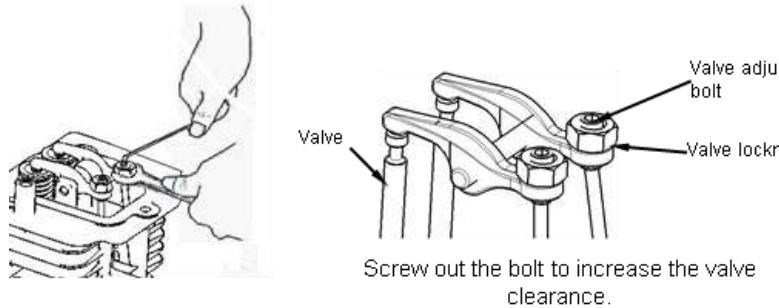
**TROUBLESHOOTING**

**Startup Failure or Difficulty in Startup**

Situations		Causes	Remedy
The spark plug is fireless.	Spark plug	Carbon deposition on the spark plug.	Remove the deposited carbon.
		Excessive or insufficient clearance of the spark plug.	Adjust it to 0.6~0.7mm.
		Damaged insulation of the spark plug	Replace the spark plug.
	Others	Damaged igniter	Replace the igniter.
		Weak magnetic force of the flywheel	Replace the flywheel.
The spark plug cannot generate spark.	Good compression	Too much fuel adsorbed in the cylinder	Screw out the spark plug, dry it and screw it in again.
		Poor fuel, containing water, too dirty	Replace the fuel
	The carburetor oil pump has (not) the ability to pump oil.	Blocked internal oil path	Clean or replace the carburetor.
	Normal oil supply but poor compression	Worn piston ring	Replace the piston ring
		Loose spark plug	Tighten the spark plug.
	Normal ignition and oil supply	Air leakage at the cylinder head, incorrect valve clearance or timing	Removal, re-adjustment or re-installation
Poor contact between the high-tension line and the spark plug		Remove and reconnect the line properly	
		Malfunction or short-circuit of shutdown switch	Replace the shutdown switch

**Abnormal Situations during Operation:**

Situations	Causes	Remedy
Rotating speed cannot be increased;	Throttle is close.	Open the throttle.
	The ventilation of the muffler is not smooth	Replace the muffler.
	Moving members are worn	Inspect and replace them.



**Maintenance before the Long-Term Shutdown**

If the engine will not be used for a long period of time due to some reasons, one time of maintenance of the engine must be carried out before its shutdown:

1. Screw off the fuel tank cap and pour out the fuel in the fuel tank; actuate the carburetor oil pump to discharge the fuel in the carburetor; then, screw up the fuel tank cap.
2. Screw off the oil rule and discharge the lubricating oil in the gasoline engine based on operating methods
3. Rotate the crankshaft to stop the piston of the gasoline engine at the position of the top dead center, so as to prevent air from getting into the cylinder and rusting the cylinder.
4. Wipe off the oil stain and dust on the external surface with the clean cotton yarn and remove the dirt between the cooling fins, so as to keep the gasoline clean. After cleaning, put the gasoline engine at a clean, dry and ventilated place for storage.
5. Disposal of waste oil: Please store the waste oil in the gasoline engine with a container and deliver it to the local waste oil treatment station for treatment, and do not pour it anywhere.

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**BEFORE GETTING STARTED**



We wish to thank you for choosing our lawn mowers. We are confident that the high quality of our machine will meet your requirement and satisfaction and that your lawn mower will give you long-lasting service. Before starting to use your machine, make sure to read this manual carefully, which has been purposely drawn up to provide you with all the necessary information for proper use, in compliance with basic safety requirements.

 <b>WARNING!</b>	When using the machine safety rules must be followed. For your own safety and safety of the bystanders, please read the instructions given in this manual before operating the machine and preserve it for future reference.
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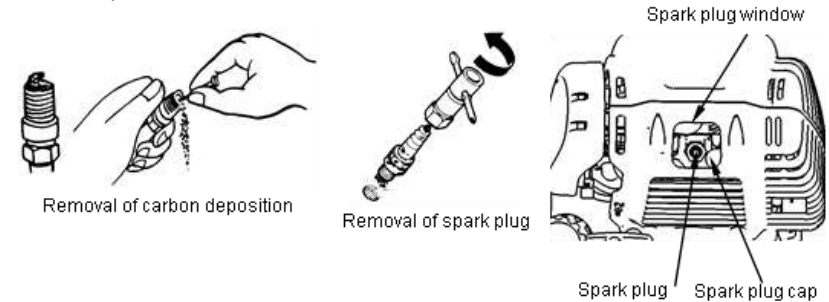
**KNOW YOUR LAWN MOWER**

By observing the recommended safety instructions before, during and after using your lawn mower and following these simple instructions you can maintain the lawn mower in good working order. Familiarize yourself with the controls on your mower before attempting to operate it, but above all, be sure, you know how to stop your mower in an emergency.

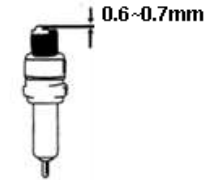
**SAFETY SYMBOLS**

	Read this instruction book carefully before using the lawn mower and keep it in a safe place for future reference.		Keep bystanders away.
	Noise level marking Your tool noise is not more than 96dB.		<b>SAFETY ALERT SYMBOL:</b> Indicates caution or warning may be used in conjunction with other symbols or pictures
	Pay more attention to the operator's hands and feet to avoid injury.		Fuel is flammable, keep fire away. Do not add fuel with running machine.
<b>B3</b>		<b>B4</b>	

3. Visually inspect the spark plug, which shall be replaced in case of obvious breakage and damage or crack or defects on the insulator. The excessive carbon deposition shall be also removed.



4. Adopt the feeler gauge to measure the clearance of the spark plug. If the adjustment is needed, carry out the adjustment by bending the side electrode.
5. Check whether the washer of the spark plug is in good condition when placing in the spark plug; manually screw it in for 2-3 turns, and then screw it up with the socket special for the spark plug.
6. Reinstall the spark plug cap.



**Warning**

The spark plug must be screwed up, or it may become extremely hot and damage the gasoline engine.

**Adjustment of Valve Clearance:**

Each set of gasoline engine is strictly debugged and inspected by our company. Generally, the engine can get into the normal operation without any adjustment. After it is used for a period of time, you may adjust the gasoline engine based on the following steps:

It is suggested to adopt the standard valve clearance: Inlet valve clearance: 0.05~0.08mm; exhaust valve clearance: 0.08~0.10mm.

- a) Hold the valve clearance adjusting bolt and loose the valve locknut.
- b) Turn the valve clearance adjusting bolt to the specified clearance.
- c) Hold the valve clearance adjusting bolt and screw up the valve locknut.
- d) Re-inspect the valve clearance after screwing up the valve locknut.

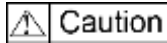


**Maintenance of Air Filter**

The function of the air filter is to filtrate impurities and dust in the air so as to allow the clean air to flow into the combustion chamber for combustion. The dirty air filter will prevent the air from getting into the carburetor. To avoid any fault of the carburetor, it is required to carry out.

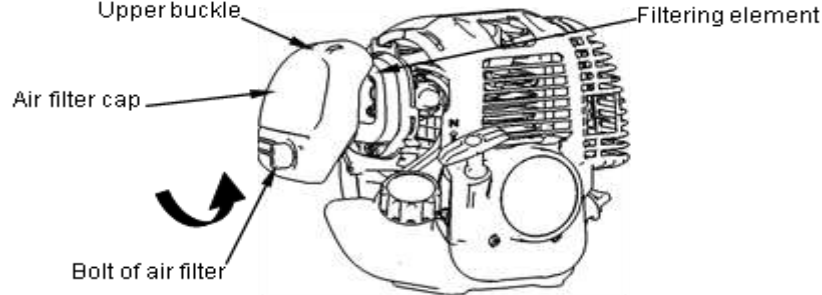


Do not use gasoline or cleaning agent with low ignition point to clean the filtering element of the air filter, or the fire disaster or explosion may occur.



It is strictly prohibited to operate the gasoline engine in the case of not installing the filtering element of the air filter as it may accelerate the wear and damage of the gasoline engine.

1. Screw the bolt of the air filter anticlockwise at the position shown on the figure, so as to take off the air filter cap.  
Upper buckle



2. Use non-flammable solvent or dissolvent with a high ignition point to clean the filtering element and completely dry it.
3. Use the filtering element to adsorb the clean lubricating oil for the gasoline engine and squeeze out the excessive oil.
4. Reinstall the filtering element of air filter.
5. Install the air filter cap based on the sequence of firstly mounting the buckle and then screwing up the bolt of the air filter clockwise.

**Maintenance of Spark Plug:**

To ensure the normal operation of the gasoline, the clearance of the spark plug shall be proper and free of deposit.

1. Dismount the spark cap in the spark plug window and put it aside.
2. Use the socket that is in proper size and special for the spark plug to dismount the spark plug.

<p>B5</p> <p>Toxic fumes; don't operate inside house.</p>	<p>B6</p> <p>When mowing, please wear the glasses and ear plugs to defend the operator himself.</p>
<p>B7</p> <p>When repairing, please pick up the spark plug, and then repair it according to the operational manual.</p>	<p>B8</p> <p>Caution: Engine hot</p>
<p>Safety Label Found On Lawn Mower: KEEP HANDS AND FEET AWAY</p>	

The purpose of the safety symbols is to attract your attention, thereby preventing possible dangers. The safety symbols and their explanations require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger and are not substitutes for proper accident prevention measures.



**WARNING**

1. Failure to obey a safety warning can result in serious injury to yourself or to the others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury. Preserve this operation manual and review frequently for continuing safe operation and instructing others who may use this tool.
2. This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.
3. The operation of any tool can result in foreign objects being thrown in your eyes, which can result in eyes severely damaged. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shield.

**SAFETY INSTRUCTIONS**

1. Read the instructions carefully. Be familiar with the controls and the proper use of the equipment;
2. Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations can restrict the age of the operator
3. Never mow while people, especially children, or pets are nearby.
4. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
5. While mowing, always wear substantial footwear and long trousers. Do not operate the equipment with barefoot or wearing open sandals; Avoid wearing clothing that is loose fitting or that were hanging cords or ties.
6. Thoroughly inspect the area where the equipment is to be used and remove all objects which can be thrown by the machine.
7. Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn out or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
8. Replace damaged or unreadable labels.
9. Mow only in daylight or in good artificial light;
10. Avoid operating the equipment in wet grass, where feasible;
11. Always be sure of your footing on slopes;
12. Walk, never run;
13. For wheeled rotary machines; mow across the face of slopes.
14. Exercise extreme caution when changing the direction, on slopes;
15. Do not mow excessively steep slopes.
16. Use extreme caution when reversing or pulling the lawnmower towards you;
17. Stop the blades 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.
18. Never operate the lawnmower with defective goods, or without safety devices, for example deflectors and/or grass catchers, in place.
19. Start the Engine carefully according to the instructions and with feet well away from the blades;
20. Do not tilt the lawnmower when starting the Engine, except if the lawnmower has to be tilted for starting. In this case, do not tile it more than absolutely necessary and lift only the part which is away from the operator;
21. Do not start the engine when standing in front of the discharge chute;
22. Do not put hands or feet near or under rotating parts, Keep clear of the discharge opening at all times.
23. Never pick up or carry a lawnmower while the engine is running.
24. Stop the engine, make sure that all moving parts have come to a complete stop (if a key is fitted – please remove the key to bring the mower to a complete stop).
  - a) Whenever you leave the machine;
    - i. Before clearing blockages or unclogging chute;
    - ii. Before checking, cleaning or working with the lawnmower;
    - iii. After striking a foreign object. Inspect the lawn mower for damage and make repairs before restarting and operating the lawn mower;
  - b) If lawnmower starts to vibrate abnormally (check immediately);
    - i. Inspect for damage;
    - ii. Replace or repair any damaged parts.

Maintenance cycle		Each time of use	Every 1 month or 10 hours	Every 3 months or 25 hours	Every 6 months or 50 hours	Every 1 year or 100 hours	Every 2 years or 300 hours
Idle speed	Check and adjustment					■b	
Valve clearance	Check and adjustment					■b	
Combustion chamber	Cleaning	300 hours later					
Fuel screen	Check					■	
Fuel tank	Check					■	
Fuel pipe	Check	Every 2 years (replacement if necessary)					

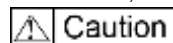
**Note:**

- a. Increase the maintenance interval if it is used in the dusty area.
- b. The maintenance of these items shall be conducted by maintenance service stations specially authorized by our company, unless the users have appropriate tools and the maintenance ability.
- c. With respect to those gasoline engines for commercial purposes and under long-term operation, their maintenance intervals shall be correctly determined.

**Replacement of Lubricating Oil:**

It is suggested to release the oil when heating the engine, so as to ensure the quick and complete release of the lubricating oil.

1. Check whether the fuel tank cap is screwed up.
2. Dismount the oil rule and incline the gasoline engine to the neck where the lubricating oil is applied, so as to release the oil to an appropriate container.
3. Fill in the recommended lubricating oil and check the oil level.
4. **Reinstall the oil rule:** In case of lubricating oil overflowing, make sure to wipe off the oil. Wash hands with soap water or detergent after contacting the lubricating oil, and then wash hands with clean water.



Please dispose the waste lubricating oil and containers with methods in compliance with environmental protection requirements. It is suggested to store the waste lubricating oil into a sealed container and deliver it to the local waste oil recycle bin for treatment. Do not throw it into the dustbin or pour it on the ground or into the drainage ditch.

### Caution

Under normal circumstances, it is strictly prohibited to directly shut the engine down in the case of no load off.

### Warning

For the sake of your health, please be far away from the muffler and do not directly face the exhaust port during operation of the gasoline engine. Pay attention to the unusual change of the gasoline during its operation. Immediately shut down the engine in case of abnormal sound, severe vibration, unstable rotating speed, blasting and other adverse phenomena of the gasoline engine.

## REPAIR AND MAINTENANCE

### Maintenance Schedule:

The regular inspection and adjustment must be carried out to ensure the gasoline engine maintains its excellent performance. The regular maintenance also ensures a long-term service life. See the following table for regular maintenance cycle.

Item	Maintenance cycle	Each time of use	Every 1 month or 10 hours	Every 3 months or 25 hours	Every 6 months or 50 hours	Every 1 year or 100 hours	Every 2 years or 300 hours
Lubricating oil	Check the oil level	■					
	Replacement		■		■		
Air filter	Check	■					
	Cleaning			■a			
Spark plug	Check and adjustment					■	
	Replacement						■
Spark extinguisher (optional)	Cleaning					■	
Cooling fin	Inspection				■		
Bolt, nut and other fasteners	Check (screwing up if necessary)						
Clutch	Inspection				■b		

- iii. Check for and tighten any loose parts.
  - c) Stop the mower:
    - i. Whenever you leave the lawn mower;
    - ii. Before refueling (applicable to **petrol** lawn mowers)
  - d) Reduce the throttle setting during engine shut down and if the engine is provided with shut-off valve, turn off the conclusion of mowing. (applicable to **petrol** lawn mowers)
25. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition;
  26. Check the grass catcher frequently for wear or deterioration;
  27. Replace worn or damaged parts for safety;
  28. No to use the lawnmower if the cords are damaged or worn out.
  29. Not to connect a damaged cord to the supply or touch a damaged cord before it is disconnected from the supply. A damaged cord can lead to contact with live parts.
  30. Not to touch the blade before the machine is disconnected from the supply and the blade have come to a complete stop.
  31. Children should be supervised to ensure that they do not play with the appliance.
  32. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
  33. Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine.
  34. Always allow the machine to cool before storing.
  35. When servicing the blades be aware that, even though the power source is switched off, the blades can still be moved.
  36. Replace worn or damaged parts for safety; Use only genuine replacement parts and accessories.
  37. Be careful during adjustment of the appliance to prevent entrapment of the fingers between moving blades and fixed parts of the appliance

**For Petrol Lawn Mowers:**

- 1) **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
- 2) Always allow the machine to cool before storing.
- 3) When servicing the blades be aware that, even though the power source is switched off, the blades can still be moved.
- 4) Replace worn or damaged parts for safety; Use only genuine replacement parts and accessories.
- 5) Be careful during adjustment of the appliance to prevent entrapment of the fingers between moving blades and fixed parts of the appliance. Replace faulty silencers;
- 6) Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect;
- 7) Do not change the engine governor settings or over speed the engine;
- 8) Disengage all blades and drive clutches before starting the engine;
- 9) Never store the equipment with petrol in the tank inside a building where fumes can reach an open flame or spark;
- 10) To reduce the fire hazard, keep the engine, silencer, battery compartment and petrol storage area free of grass, leaves, or excessive grease;
- 11) If the fuel tank has to be drained, this should be done outdoors.

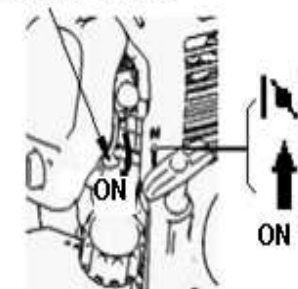


**WARNING!**

Do not touch rotating blade.  
 Refuel in a well-ventilated area after stopping the engine.

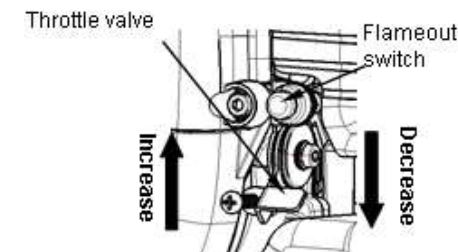
6. In case of using the gasoline engine in the plateau region, the air and fuel mixture of the carburetor in the normal state will be too dense, which will reduce the running performance of the gasoline engine and increase the fuel consumption. Thus, the carburetor shall be replaced with a special one for use in the plateau region.
7. With the increase of the elevation, the power of the gasoline engine will have some decline.

**Handle of choke valve**



**Operation:**

When preheating the gasoline engine, gradually move the handle of the choke valve to the "OPEN" position. Then, adjust the handle of the throttle valve upward and set it at the position of the required running speed of the engine.



**Caution**

To give full play to the product performance, it is suggested to run the gasoline engine for about 15 minutes in the low-speed state if the engine is used for the first time. Heat the engine for 3-5 minutes and then get it into the working state every time when it is to be used.

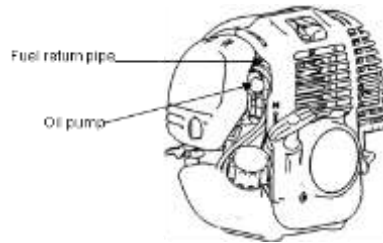
**Shutdown**

Directly press down the stop switch or pull off the spark plug cap in case of shutdown in an emergency. Generally, conduct the operation based on the following steps:

1. Release the load firstly; then press down the handle of the throttle valve to reduce the rotating speed of the gasoline engine.
2. Press down the stop switch after 2-3 minutes of no-load running.

**Startup of Gasoline Engine**

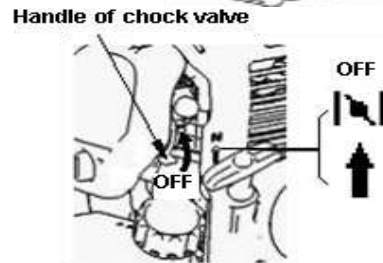
1. Forcibly press the oil pump until the fuel in the fuel pipe (transparent oil pipe) can be seen



2. Pull the choke valve to the "OFF" position and return

**Caution**

Do not use the choke valve when the gasoline engine is hot or in the high-temperature state.

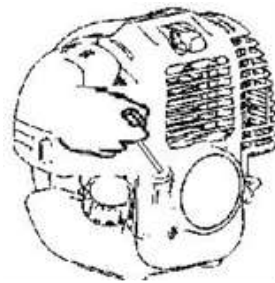


**Startup:**

3. Grasp the starter handle and slowly pull until you feel the resistance, then firmly pull it outwards.

**Caution**

4. It is required to slowly lay back the handle along the resilience of the starter rope rather than abruptly release the handle and allow it to rebound and strike the gasoline engine, which will damage the starter.
5. It is required to quickly pull the starter, or the electrode of the spark plug cannot spark, which will consequently result in the starting failure.



**OVERVIEW**

	<p><b>KK-LMP-6416</b></p> <ol style="list-style-type: none"> <li>1. Upper handle</li> <li>2. Brake control handle</li> <li>3. Rope Guide</li> <li>4. Locking Knob</li> <li>5. Grass Catcher</li> <li>6. Oil Cap</li> <li>7. Deck</li> <li>8. Height Adjusting Lever</li> <li>9. Spark Plug</li> <li>10. Fuel Cap</li> <li>11. Cable Clamp</li> <li>12. Starter Handle</li> <li>13. Throttle Choke Lever</li> </ol> <p>A: Spark Plug Wrench</p>
	<p><b>KK-LMP-6418,6420</b></p> <ol style="list-style-type: none"> <li>1. Upper handle</li> <li>2. Self-drive control handle</li> <li>3. Throttle choke Lever</li> <li>4. Starter handle</li> <li>5. Rope Guide</li> <li>6. Locking lever</li> <li>7. Lower handle</li> <li>8. Grass catcher</li> <li>9. Height adjusting lever</li> <li>10. Deck</li> <li>11. Spark Plug</li> <li>12. Fuel cap</li> <li>13. Oil cap</li> <li>14. Cable clamp</li> <li>15. Brake control handle</li> </ol> <p>A: Spark plug wrench</p>
	<p><b>KK-LMP-6419</b></p> <ol style="list-style-type: none"> <li>1. Upper handle</li> <li>2. Starter handle</li> <li>3. Rope Guide</li> <li>4. Grass catch bag</li> <li>5. Height adjusting lever</li> <li>6. Oil Cap</li> <li>7. Deck</li> <li>8. Spark Plug</li> <li>9. Fuel cap</li> <li>10. Cable clamp</li> <li>11. Locking knob</li> <li>12. Throttle choke Lever</li> <li>13. Self-drive control handle</li> <li>14. Brake control handle</li> </ol> <p>A: Spark plug wrench</p>

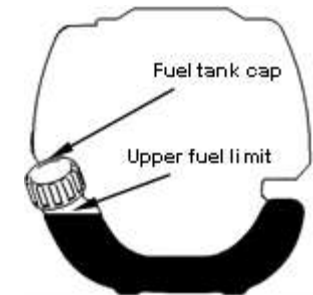
**TECHNICAL SPECIFICATIONS**

Model	KK-LMP-6416	KK-LMP-6420	KK-LMP-6418	KK-LMP-6419
Self-Propel	No			Yes
Engine Displacement (cc)	135			
Blade Width (mm)	400	501	460	
Rated Speed per min	2800			
Fuel Tank Capacity (L)	1.2			
Grass catcher capacity (L)	50	65	60	
Net Weight (kg)	28	33	32	30.1
Height Adjustments	10			7
Cutting Height (mm)	25-75	30-80	25-75	30-75
Guaranteed Sound pressure level at the operator's position in dB(A)(According to EN 836 Annex H & EN ISO 4871) ,(K=3)	86	87	86	85.3
Measured sound power level in dB(A) (According to 2000/14/EC)	91.1 K=1.94	94.7 K=2.29	91.7 K=1.81	93.52 K=1.96
Guaranteed Sound Power level in dB(A) (According to 2000/14/EC)	96	98	96	
Vibration in m/s <sup>2</sup> (According to EN 836 Annex G),( K=1.5)	2.988			3.699

If the continuous spark knock sound can still be heard when the gasoline engine operates under the normal load, it is suggested to replace the gasoline with other brands; after then, if the sound still exists, please consult the specially authorized service shop for solution

**⚠ Caution**

- Gasoline is highly flammable and can explode under some circumstance.
- Refill the gasoline in the well-ventilated environment and shut down the engine during refueling; no smoking at the refueling place and no open fire and spark at the gasoline storing place is permitted.
- The fuel tank shall not be overfilled (The fuel level shall not be higher than the neck of the oil filler); inspect whether the fuel tank cap is properly covered after the refueling is completed.
- Be careful not to spill fuel when adding the fuel. Spilled fuel or vapor of the overflowing fuel may result in fire. Wipe up any spilled fuel without delay.
- Do not allow children to touch it. Capacity of fuel tank:0.6L

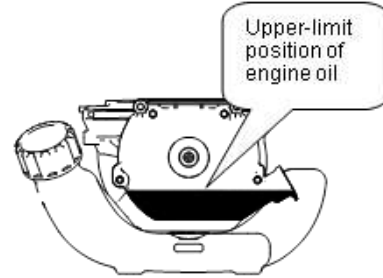


**Gasoline containing alcohol**

If the gasoline containing alcohol (alcoholic gasoline) is adopted, the ethanol content in the alcoholic gasoline shall not exceed 10%. Do not use the alcoholic gasoline where the methanol is free of combustion improver and corrosion inhibitor. Though the methanol does contain combustion improver and corrosion inhibitor, the methanol content in the alcoholic gasoline shall not exceed 5%.

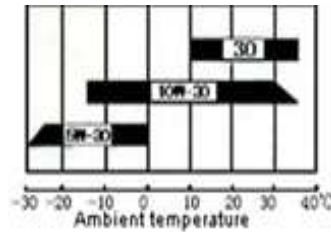
### Check the lubricating oil level

1. Shut down the gasoline engine and place it at horizontal level.
2. Dismount the engine oil rule and check the oil level, which shall be up to the oil filler.
3. If the oil level is low, fill the recommended lubricating oil to the oil filler
4. Remount the oil rule.



### ⚠ Caution

1. The filling volume of lubricating oil for the gasoline engine is 75ml. Due to the small capacity, it is required to slowly fill the oil to avoid overflow or spilling.
2. Check the lubricating oil level of the gasoline engine at intervals of 10 hours and fill it up to the oil filler if the gasoline engine is required to continuously operate for above 10 hours.
3. Users shall use engine oil of different brands under different ambient temperatures.
4. The use of the lubricating oil free of cleaning agent or the lubricating oil for the two-stroke engine will shorten the service life of the gasoline engine. The operating temperature range recommended for the gasoline engine is -5°C~40°C.









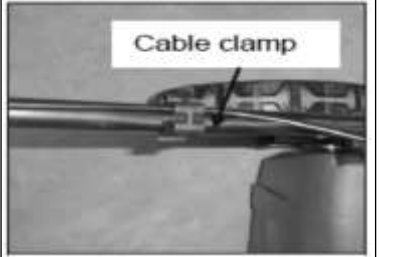
### Recommended fuel

It is recommended to use the unleaded gasoline with an octane value of 90# or higher, so as to reduce the carbon deposition in the combustion chamber. Do not use the out-of-date or polluted gasoline or the fuel mixture of engine oil and gasoline. It is also required to keep the water or dust from getting into the fuel tank. Sometimes, there will be spark knock sound or the bang-bang noise in case of overload operation, which is normal.

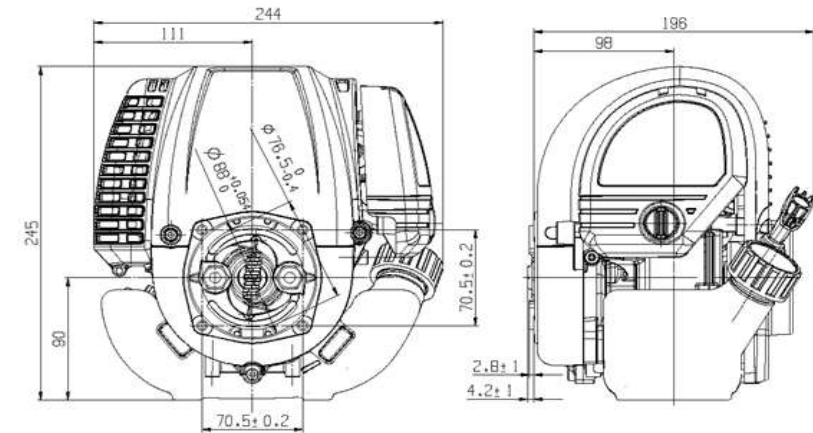
### ASSEMBLY

**FOLDING HANDLE:** Depending on the mower, follow one of the procedures given below.

KK-LMP-6416	KK-LMP-6418 / 6419/ 6420
<p>1. Insert the lower handlebars into the fixed holes of the unit body</p> 	<p>1. Fix the lower handlebars into the unit body with a suitable spanner</p> 
<p>2. Fix the supplied screws with the help of a screwdriver</p> 	<p>2. Lift the two locking levers to release the upper handlebars for folding. Push the locking lever closed to lock the handlebars in the operating position. Adjust the tension by turning the lock nut with a suitable spanner.</p> 
<p>3. Release the upper handlebars for folding. Connect the upper handle and the lower handle with the locking levers. Adjust the tension by turning the lock lever with a suitable spanner</p>	<p>3. Attach the cable-clamp to the position shown and then attach the cable</p>


KK-LMP-6416	KK-LMP-6418 / 6419/ 6420
 <p>Locking Lever(x2)</p>	 <p>Cable clamp</p>
<p>4. Attach the cable-clamp to the position shown below and then attach the cable</p>	
 <p>Cable clamp</p>	

### INSTALLATION DIMENSION

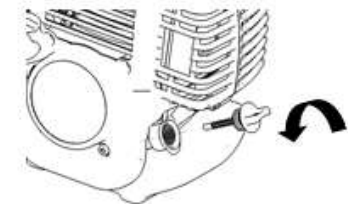


### OPERATING INSTRUCTIONS

#### Preparation and Check Prior to Operation

 **Caution**

The gasoline engine is not filled with engine oil before it is delivered from the factory. Please fill it with engine oil firstly







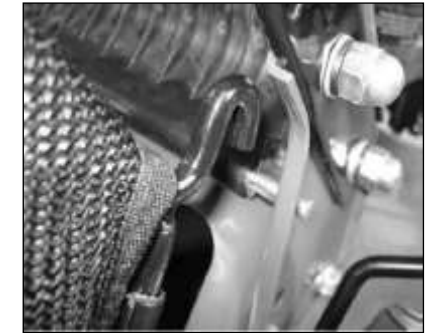
- If it is operated based on the operating manual, this gasoline engine can provide the safe and reliable operation as designed. Please carefully read and understand this instruction manual before operating the engine, or it may cause personal injury or equipment damage.
- Do not touch the muffler during operation and shutdown of the gasoline engine as it is very hot. Place the gasoline engine in a room after it cools down.
- As the exhaust system of the gasoline engine is very hot during its operation and at the time of shutdown. Please pay attention to the warning label on the gasoline engine to avoid being burnt.
- As the gasoline is inflammable and explosive, please make sure to refuel at a ventilated place, shut down the gasoline engine before refueling and be far away from cigarettes and spark; the overflowing gasoline shall be wiped off immediately.
- Do not use it indoors and make sure to have enough ventilation as the exhausted air contains carbon monoxide.

### MOUNTING AND DISMOUNTING THE GRASS CATCHER:

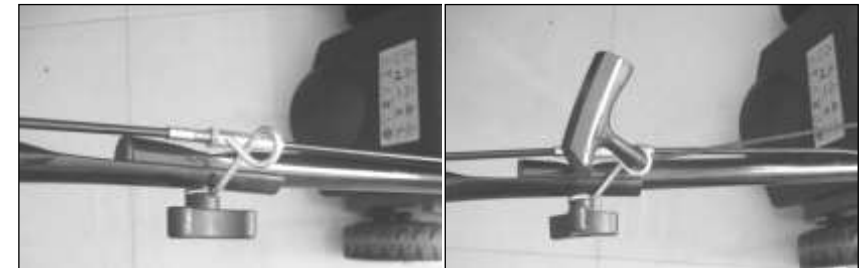
To fit: Raise the rear cover and hitch the grass catcher on the rear side of the mower.



To remove: Grasp and lift the rear cover, remove grass catcher



**STARTER HANDLE:** Move the starter handle from the engine to the rope guide.






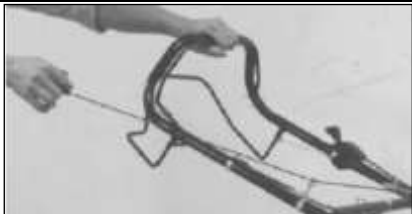
### HEIGHT OF THE CUT:

1. Apply outward pressure to disengage lever from the rack.
2. Move lever forward or back to adjust height.

### OPERATING INSTRUCTIONS

**BEFORE STARTING:** Service the engine with gasoline and oil as instructed in the separate engine manual packed in your mower. Read the instructions carefully.

**TO START ENGINE AND ENGAGE BLADE:** The unit is equipped with a rubber boot over the end of the spark plug, make certain the metal loop on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip of the spark plug.

<p><b>Models with Primer Bulb (KK-LMP-8619):</b> Press the primer bulb 3-5 times before starting the engine as shown in the picture →</p>	
<p>When starting cool engine, turn throttle choke lever to position shown →</p>	 <p>Standing behind the unit, grasp the brake control handle and hold it against the upper handle as shown in picture below. Grasp the starter handle as shown below and pull up rapidly. Return it slowly to the rope guide bolt after engine starts. Release the brake control handle to stop the engine and blade.</p>
<p>When starting warm engine and Operating, turn throttle choke lever to position shown →</p>	 

**⚠ WARNING:**

1. Start the engine carefully according to instructions and with feet well away from the blade.
2. Do not tilt the lawn mower when starting the engine. Start the mower on a level surface, free of high grass or obstacles.
3. Keep hands and feet away from the rotating parts. Do not start the engine when standing in front of the discharge opening
4. **During operation, tightly hold the stop control handle with both hands.**  
**Note:** During operation, when the brake control handle is released, the engine will stop and thus stopping the lawnmower from operating.

### WORKING PRINCIPLE:

The fuel is burned in a single cylinder to drive the piston for reciprocating motion, by which the chemical energy of the fuel is converted into mechanical energy; sequentially, the power output is realized.

### SAFETY INSTRUCTIONS

1. The gasoline engine must be operated by personnel with certain professional knowledge, and the independent operation by non-professional personnel is strictly prohibited.
2. Keep the gasoline beyond the reach of children.
3. It is not allowed to place inflammable, explosive and other dangerous articles around the gasoline, so as to avoid the fire hazard.
4. The workplace shall be of smooth ventilation and be above 10m away from the combustion source.
5. The engine must be shut down when adding fuel or lubricating oil.
6. Smoking is strictly prohibited in the course of refueling, and overflowing of gasoline is not allowed; if it overflows due to carelessness, the oil stain must be completely cleaned prior to the startup of the gasoline engine.
7. To prevent your gasoline engine from being damaged, please do not start up the engine when the lubricating oil is not applied or when the applied lubricating oil is insufficient.
8. Do not operate the gasoline engine when you are not quite sure or under the influence of alcohol. Otherwise injury may result.
9. **⚠ Caution** Prolonged or repeated exposure to gasoline or engine oil may cause skin carcinoma, even though this possibility is very low. Wash hand thoroughly with soap and water after handling gasoline and engine oil
10. **⚠ Caution** We recommend that the users place the used gasoline engine oil into closed containers and deliver containers to the waste treatment yard or reclamation depots.
11. Don not allow used gasoline and engine oil to spill on ground or be drained into waste water piping or sewers.
12. Keep the gasoline engine hot and in horizontal position to drain engine oil rapidly and completely.
13. For the sake of the safety of your own and the others, please pay special attention to the following safety signs.

## GENERAL DESCRIPTION

The normal operation of the engine can be guaranteed under the natural environment of 268~313K. This type of gasoline engine can be used as the power source for the gasoline engine driven water pump, gardening equipment, lawn mower and other general machinery. This instruction manual is not applicable to gasoline engines for special purposes such as gasoline engine for motorcycle and outboard engine.

This general gasoline engine series are of excellent quality. They can be started up easily and reliably with strong power output, remarkable oil-saving effect, low operating noise and emission. There are diversified types of power take-off ends, and our perfect after-sales service system ensures that you will have a most trouble-free and satisfying gasoline engine. This series of gasoline engines are of single-cylinder, four-stroke, small in size, light in weight and compact in structure, and adopt the forced air cooling, overhead valve, inductive ignition and recoil-type hand-operated startup.

This manual contains the latest information on operation and maintenance of the engine (the illustrations in the manual is indicative and only for reference).As our products are constantly in the process of further improvement and development, they are subject to improvement or alteration without notice.

In case that the gasoline engine is resold, this instruction manual shall be regarded as an integral part of the gasoline engine and delivered with it.

**Warning** Please read this manual thoroughly before operating the engine and observe these instructions contained in this manual strictly. Our company's safe and reliable gasoline engines can operate safely and reliably and not result in personal injury or equipment damage.

Failure to comply with these instructions will result in serious injury or equipment damage.

## STRUCTURAL DIAGRAM



### CONNECTION FOR SELF PROPELLED MOWER (KK-LMP-6419)

1. Hold the self-drive control handle, the lawnmower will move forward automatically with about 3.2km/h speed.
2. If you release the self-drive handle, the lawnmower will stop moving.

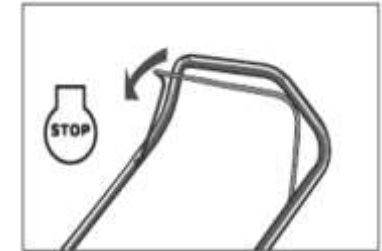


### TO STOP THE ENGINE:

1. Release the brake control handle to stop the engine and the blade.
2. Disconnect and ground the spark plug wire as instructed in the separate engine manual to prevent accidental starting while equipment is to be kept unattended.



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



## TO ACHIEVE THE BEST RESULTS WHILE MOWING

1. **Clear the 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.
2. **Do not cut wet grass.** For effective mowing does not cut wet grass because it tends to stick to the underside of the deck preventing proper mowing of the grass clippings.
3. **Cut not more than 1/3 the length of the grass.** The recommended cut for mowing is 1/3 the length of the grass.
4. **Ground speed needs to be adjusted** so that the clippings can be dispersed evenly into the lawn. Especially for 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.
5. **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.
6. **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.
7. **Clean underside of the 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.
8. **Mowing leaves.** The mowing of leaves can also be beneficial to your lawn. When mowing leaves, make sure they are dry and are not lying too thick on the lawn. Do not wait for all the leaves be off the trees before you mow.

**⚠ WARNING:** If you strike a foreign object, stop the motor. Pull out the mains 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.

**⚠ CAUTION:** Your mower is designed to cut normal residential grass of a height not 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 may come in contact with the engine exhaust creating a potential fire hazard.

**GRASS CATCHER:** If the catcher is full of grass, you will empty and clean the bag, make sure it is clean and ensure its mesh-work is ventilated.



**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).

### HEIGHT ADJUSTMENT INSTRUCTIONS:



**WARNING!**

Do not at any time make any adjustment to lawnmower without first stopping the engine and disconnecting the spark plug wire. Before changing mowing height, stop mower and disconnect spark plug cable.

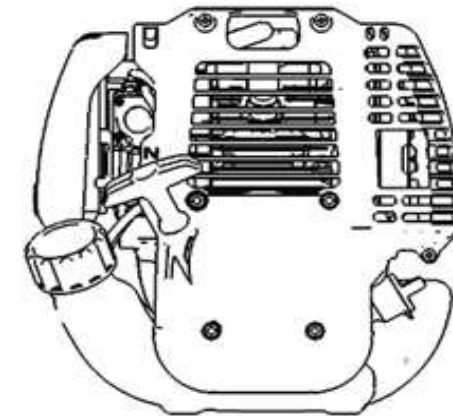
**All wheels must be in the same height of cut.**

Your mower is equipped with a central height adjustment lever offering many height positions. The height (the blade to the ground) can be adjusted as per specification shown in technical data.

1. Stop mower and disconnect spark plug cable before changing mower cutting height.
2. The central height adjustment lever offers you different height positions.
3. To change the height of cut, squeeze adjuster lever toward the wheel, moving up or down to selected height.

Depending on your mower, you may have one of the following system for adjusting cutting height:

## USER MANUAL- 4 STROKE PETROL ENGINE



### BEFORE GETTING STARTED

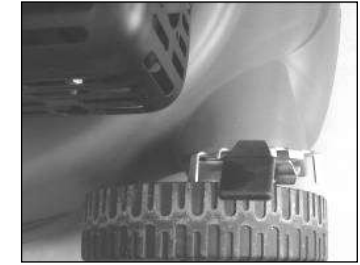
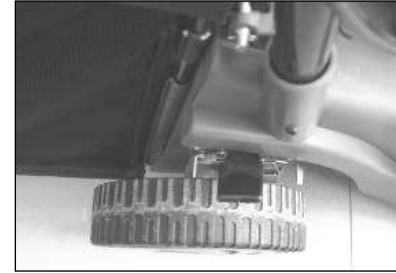
Please read this manual thoroughly before operating this gasoline engine. The manufacturer reserves the right to modify this manual without notice. The manufacturer shall assume no liability for incorrect information contained in this manual. Copying of any contents of this manual are forbidden without written approval. Some important information in this manual will be indicated in the following way. The users should pay special attention to these instructions.

**⚠ Danger** This indicates a hazardous situation, which, if not avoided, will result in death or serious injury.

**⚠ Warning** This indicates a hazardous situation, which, if not avoided, could result in death or serious injury.

**⚠ Caution** This indicates a hazardous situation, which, if not avoided, could result in minor or moderate injury.

Sl.No	Part No	Part Name
112	E-111-LMP	Carburetor assembly
113	E-112-LMP	Air filter gasket
114	E-113-LMP	Accelerograph spring
115	E-114-LMP	Valve rod
116	E-115-LMP	Choke valve rod
117	E-116-LMP	Air filter sheath
118	E-117-LMP	Air filter base
119	E-118-LMP	Aerating pipe cover
120	E-119-LMP	Air filter sponge
121	E-120-LMP	Air filter cover
122	E-200A-LMP	Speed adjusting gear assy
123	E-201A-LMP	Piston ring Assy



**MAINTENANCE**

**⚠ CAUTION:** DISCONNECT SPARK PLUG BEFORE SERVICING.

<b>SPARK PLUG:</b>	Use only original spark plug during replacement. For best results, replace the spark plug every 100 hours of use.
<b>LUBRICATION:</b>	<ol style="list-style-type: none"> <li>1. WHEELS-Lubricate the ball bearings in each wheel at least once a season with a light oil.</li> <li>2. ENGINE-Follow engine manual for lubrication instructions.</li> </ol>
<b>CLEANING:</b>	<ol style="list-style-type: none"> <li>1. Wipe the deck with dry cloth.</li> <li>2. Hose under the deck by tilting the mower so that the spark plug is up.</li> </ol> <p><b>⚠ CAUTION:</b> Do not hose engine. Water can damage the engine or contaminate the fuel system.</p>
<b>ENGINE AIR CLEANER</b>	<p><b>⚠ CAUTION:</b> Do not allow dirt or dust to clog the air filter foam element.</p> <p>The engine air cleaner element must be serviced (cleaned) after 25 hours of normal mowing. The foam element must be serviced regularly if the mower is used in dirty/dusty conditions.</p>

**To CLEAN AIR FILTER:**

1. Remove the screw.
2. Remove the filter cover.
3. Wash filter element in soap water.

**⚠ DO NOT USE GASOLINE!**

4. Air dry filter element.
5. Place a few drops of SAE30 oil on the foam filter and squeeze tightly to remove any excess oil.
6. Reinstall filter.

**⚠ NOTE:** Replace filter if frayed, torn, damaged or unable to be cleaned.



SI.No	Part No	Part Name
84	E-83-LMP	Cylinder head
85	E-84-LMP	Intake valve
86	E-85-LMP	Exhaust valve
87	E-86-LMP	Locating pin (Cylinder head)
88	E-87-LMP	Cylinder head gasket
89	E-88-LMP	Cylinder block
90	E-89-LMP	Muffler gasket
91	E-90-LMP	Muffler assembly
92	E-91-LMP	Cover muffler
93	E-92-LMP	Self-locking nuts M6
94	E-93-LMP	Stud-M6*90.5
95	E-94-LMP	Flange bolt M8*45
96	E-95-LMP	valve oilseal
97	E-96-LMP	Valve spring
98	E-97-LMP	Intake valve spring seat
99	E-98-LMP	Exhaust valve spring seat
100	E-99-LMP	Cap Exhaust valve
101	E-100-LMP	Pusher rod
102	E-101-LMP	Pusher guides
103	E-102-LMP	Stud Rocker Assy
104	E-103-LMP	Rocker
105	E-104-LMP	Adjusting nut
106	E-105-LMP	Locking nut
107	E-106-LMP	Cylinder head cover gasket
108	E-107-LMP	Cylinder head cover
109	E-108-LMP	Insulator gaskets
110	E-109-LMP	Insulator
111	E-110-LMP	Carburetor gasket

Sl.No	Part No	Part Name
56	E-55-LMP	Fuel Filter
57	E-56-LMP	Gasketfuel tank cap
58	E-57-LMP	Fuel tank cap
59	E-58-LMP	Filter(Respirator valves)
60	E-59-LMP	Respirator valves
61	E-60-LMP	Gasket respirator
62	E-61-LMP	Respirator cover plate assembly
63	E-62-LMP	Bearing 6205
64	E-63-LMP	Oil seal FB22*35*7
65	E-64-LMP	Flywheel assembly
66	E-65-LMP	Fan
67	E-66-LMP	Starter Sleeve
68	E-67-LMP	Nut M14*1.5
69	E-68-LMP	Fan cover sheath
70	E-69-LMP	Fan cover
71	E-70-LMP	Start assembly
72	E-71-LMP	Engine outer cover
73	E-72-LMP	Cap nut
74	E-73-LMP	Flange bolts M6x20
75	E-74-LMP	Flameout switch assembly
76	E-75-LMP	Brake assembly
77	E-76-LMP	Washer sheath
78	E-77-LMP	Oil pipe bracket
79	E-78-LMP	Stud-B
80	E-79-LMP	Stud-A
81	E-80-LMP	Nuts M6
82	E-81-LMP	Ignition coil
83	E-82-LMP	Spark plug

**CUTTING BLADE**

**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 if necessary.

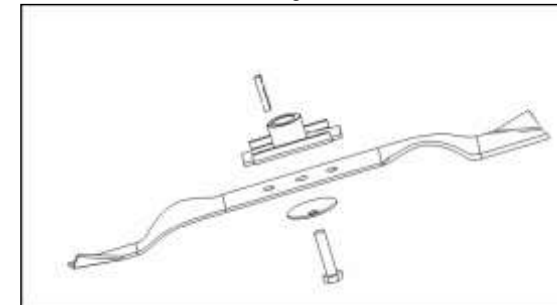
For best results your blade should be sharp. The blade may be sharpened by removing it and either grinding or filing the cutting edge, keeping as close to the original bevel as possible. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. Improper blade balance will result in excessive vibration causing eventual damage to the engine and the 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 12. 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:

**BLADE MOUNTING TORQUE:** Center Bolt 40Nm. min, 50Nm. max. 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 a blade unbalance condition is not the responsibility of the manufacturer.

When you change the blade, replace it with the original one For ordering the blade, please. contact your local dealer or call our company)

**WARNING:** Do not touch the rotating blade.





**ENGINE:**

1. Refer to the separate engine manual for the engine maintenance instructions.
2. Maintain engine oil as instructed in the engine manual packed with your unit.
3. Read and follow instructions carefully.
4. Service air cleaner as per the engine manual under normal conditions. Clean frequently under extremely dusty conditions. Poor engine performance and flooding usually indicate that the air cleaner should be serviced.
5. To service the air cleaner, refer to the engine manual packed with your unit.
6. The spark plug should be cleaned and the gap resets once in a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.
7. 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 muffler area.

**STORAGE INSTRUCTIONS (OFF SEASON):** The following steps should be taken to prepare 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 close proximity of open fire, etc. Do not smoke! Petrol fumes can cause explosion or fire.
  - b) Start the engine and let it run until it has used up all remaining petrol and stalls.
  - c) Remove the spark plug. Use an oil can 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 be completely cooled down before storing the lawnmower.

 **NOTE:**

1. When storing any type of power equipment in an unventilated or material storage shed, Care should be taken to ensure rust-proof for the equipment. using a light oil or silicone, coat the equipment, especially cables and all moving parts.
2. Be careful not to bend or kink cables.
3. 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 the engine slowly. Slip the starter rope into the rope guide bolt on handle.

**Transport:** Turn the engine off. Ensure not to bend or damage the cutter when pushing the lawn mower over obstacles.

Sl.No	Part No	Part Name
28	E-27-LMP	Spacer 1
29	E-28-LMP	Spacer 2
30	E-29-LMP	Governor tension spring
31	E-30-LMP	Speed adjustment assey
32	E-31-LMP	Flange bolts M6*35
33	E-32-LMP	Gasket crankcase cover
34	E-33-LMP	Crankcase cover
35	E-34-LMP	Oil seal FB25*38*7
36	E-35-LMP	Oil drain plug gasket
37	E-36-LMP	Oil drain plug
38	E-37-LMP	Flange bolts M6*25
39	E-38-LMP	Flange nut M6
40	E-39-LMP	Speed Adjustment arm
41	E-40-LMP	Screw (Speed Adjustment arm)
42	E-41-LMP	Flexible cotter pin
43	E-42-LMP	Oil seal FB6*11*4
44	E-43-LMP	Sway bar
45	E-44-LMP	Aerating pipe
46	E-45-LMP	Flameout wire assembly
47	E-46-LMP	Flange bolts M6*16
48	E-47-LMP	Fuel Tank Bracket
49	E-48-LMP	Left fuel tank bracket
50	E-49-LMP	Right fuel tank bracket
51	E-50-LMP	Fuel Tank
52	E-51-LMP	Fuel pipe
53	E-52-LMP	Hose Clip B
54	E-53-LMP	Hose clamp
55	E-54-LMP	Hose Clip-A



**PARTS LIST LMP-6416/6418/6419/6420**

Sl.No	Part No	Part Name
1	E-01-LMP	Bolt M6*30(Hex)
2	E-02-LMP	Wave washer Φ6
3	E-03-LMP	Plate with two holes
4	E-04-LMP	Bolt M6*12(Hex)
5	E-05-LMP	Slide sheath
6	E-06-LMP	N/A
7	E-07-LMP	N/A
8	E-07A-LMP	N/A
9	E-08-LMP	speed adjustment gear
10	E-09-LMP	Flat washer Φ6 thickness 0.8
11	E-10-LMP	Nylon camshaft assembly
12	E-11-LMP	Tappet
13	E-12-LMP	Locating pin (Crankcase cover)
14	E-13-LMP	Bolt M5x20(Hex)
15	E-14-LMP	Nut M5
16	E-15-LMP	Oil gauge
17	E-16-LMP	O-rings25*3.1(oil gauge)
18	E-17-LMP	Oil gauge pipe
19	E-18-LMP	O-rings 20*2.4(oil gauge pipe)
20	E-19-LMP	Crankshaft assembly
21	E-20-LMP	Connecting rod assembly
22	E-21-LMP	Piston pin
23	E-22-LMP	Piston pin circlip
24	E-23-LMP	Piston
25	E-24-LMP	N/A
26	E-25-LMP	N/A
27	E-26-LMP	N/A

**TROUBLESHOOTING**

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
The engine does not start.	Throttle chokes not in the correct position for the prevailing conditions.	Move throttle chokes to correct position
	The fuel tank is empty.	Fill tank with fuel: refer to ENGINE OPERATION MANUAL.
	Air cleaner element is dirty.	Clean air cleaner element: refer to ENGINE OPERATION MANUAL
	The spark plug is loose.	Tighten the spark plug to 25-30Nm.
	Spark plug wire is loose or got disconnected from the plug.	Install spark plug wire on the spark plug.
	Spark plug gap is incorrect.	Set the gap between electrodes at 0.7 to 0.8mm
	The spark plug is defective	Install a new spark plug with the proper gap between the electrodes. Refer to ENGINE OPERATION MANUAL
	Carburetor is flooded with fuel	Remove air cleaner element and pull starter rope continuously until carburetor clears itself and then install air cleaner element.
	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 the fuel tank cap is plugged.	Clean or replace fuel tank cap.
	Air cleaner element is dirty.	Clean air cleaner element.
The engine operates erratically.	The spark plug is defective.	Install a new spark plug with the proper gap between the electrodes. Refer to ENGINE OPERATION MANUAL
	Spark plug gap is incorrect.	Set the gap between electrodes at 0.7 to 0.8mm
	Air cleaner element is dirty.	Clean air cleaner element: refer to ENGINE OPERATION MANUAL
The engine idles poorly.	Air cleaner element is dirty.	Clean air cleaner element: refer to ENGINE OPERATION 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.
The engine skips at high speed.	Gap between electrodes of the spark plug is too low.	Set the gap between electrodes at 0.7 to 0.8mm

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
The engine overheats	Cooling air flow is restricted.	Remove any debris from slots in the shroud, blower housing and air passages
	Incorrect spark plug.	Install F6RTC spark plug and cooling fins on the engine.
Mower vibrates abnormally	Cutting assembly is loose.	Tighten the blade
	Cutting assembly is unbalanced	Balance the blade.

**ENVIRONMENT FRIENDLY DISPOSAL**



According to various government directives on electric and electronic equipment and, all electric tools must be separately collected and should be recycled in an environment friendly manner. The owner of the power tool is responsible for proper disposal at a designated collection point that prepares the device for recycling according to national recycling laws and regulations. This does not include accessories and tools without electric or electronic components

**PARTS DIAGRAM-LMP-6416/6418/6419/6420**

