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

Product	<b>Agricultural Portable Sprayer (Power)</b>	KisanKraft Invoice Date	
Brand	<b>KisanKraft</b>	KisanKraft Invoice No.	
Model	<b>☐ KK-P999</b>		
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Buyer's Info (Name, Address, Phone, etc.):		Dealer's Stamp (Address, Phone, TIN, etc.):	
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🌐: www.kisankraft.com    ✉: info@kisankraft.com    ☎: +91.80. 22178200

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Wide Range of Products for Every Need



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

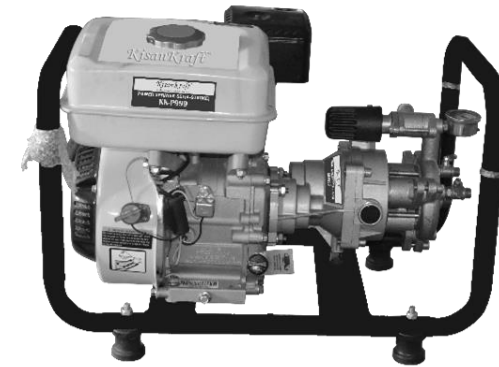


Many of our products have BIS: ISI certification.



## User Manual

### KK-P999



### KisanKraft Limited

(Formerly known as KisanKraft Machine Tools Pvt Ltd)

Sri Huchhanna 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 ◆

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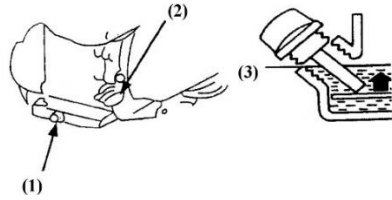
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KisanKraft has a large range of products to serve the farmers. A list of our products is given below:

<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>Sugarcane 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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fouling and water inside fuel tank. Reinstall fuel tank, place filter from fill-in hole, filling the clean fuel to red line level.



- 1) Drain plug                      2) Engine switch                      3) Lower level

Check aging of fuel pipe every 2 years. If ageing, hardening and cracking is detected, have it replaced. Tighten the joints, and check leakage.

**Before storing the unit for an extended period:**

1. Make sure the storage area is free of excessive humidity and dust.
2. Service according to the table below.

Storage Time	Recommended Service Procedure To Prevent Hard Starting
Less than 1 month	No preparation required
1 to 2 months	Fill with fresh gasoline and add gasoline conditioner
2 months to 1 year	<ul style="list-style-type: none"> <li>• Fill with fresh gasoline and add gasoline conditioner</li> <li>• Drain the carburetor float bowl</li> <li>• Drain the fuel sediment cup</li> </ul>

### TROUBLESHOOTING

**1. The Engine Can't Startup**

- Have the engine checked if it is hard to or cannot be started.
- Firstly, check the fuel level of the fuel tank. Turn fuel valve to (2), Fuel should flow from the drain when the fuel valve is turned ON. Tighten the drain plug. (Refer to starting of the engine)

**2. Spark Plug**

Check the spark plug. Remove the spark plug cap and clean any dirt around it. If the engine still cannot be started after repeating several times, please see the authorized dealer. Users are not allowed to dismantle or reassemble the unit by themselves.

**3. Not Enough Power**

- Check the air-cleaners. Please refer the maintenance inspection book to clear the air-cleaner.
- Check the fuel. Please strain out the gasoline in fuel tank and in carburetor, and fill in new gasoline.
- For any other trouble, please contact our dealer.

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### NOTE:

Fuel can damage paint and plastics. Be careful when refueling. Damage caused by spilling fuel is not covered under warranty.

## MAINTENANCE

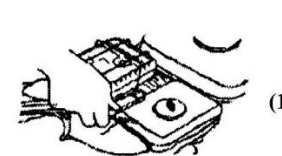
Do periodic maintenance to keep the engine in good condition. Always follow the inspection and maintenance recommendation and schedules given in this manual.

### ! WARNING:

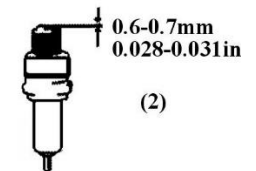
Stop the engine before doing any maintenance work. If the engine must be operated, provide adequate ventilation. Breathing in exhaust can cause loss of consciousness and even lead to death.

### Everyday Maintenance:

1. **Air cleaner:** A dirty air cleaner will restrict air flow into the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.
  - Check air cleaner core, get rid of fouling, and keep the core clean.
  - Check bolts, fasten the loose ones.
  - Check whether lubricant oil level is within the limits.
2. Clean the core after 25hrs of engine run
3. Clean carbon fouling of the spark plug after working up to 50hrs. Check the clearance, and adjust the gap to 0.6-0.7mm (see figure 4-1). Check radiator, and clean fouling among radiators.
  - Drain the oil while the engine is warm to assure rapid and complete draining.
  - Remove the drain plug and sealing washer, remove the oil filler cap, and drain the oil.
  - Reinstall the drain plug and sealing washer. Tighten the plug securely.
  - Refill with the recommended oil and check the oil level.



(1) Dismantle Spark Plug

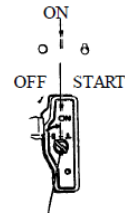


(2) Adjust Clearance

4. Clean the fuel tank and filter when working time reaches 100hrs: Remove the fuel cover, drop out filter, and wash it with brush slightly. Remove fuel tank, clean the

**Electrical Starting:**

Turn the engine switch to START position and hold a while until the engine started

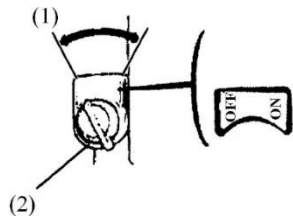


**ENGINE SWITCH**

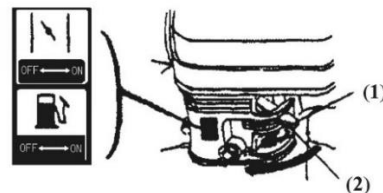
**NOTE:** Restrict the starting time within 5 seconds to avoid engine damage. If engine cannot be started, release starter knob, retry after 10 seconds.

**STOPPING THE ENGINE**

Adjust throttle to proper position. Reduce engine speed, close the choke. Turn engine switch to OFF position.



(1) Throttle knob



(2) Throttle is at OFF

**! DANGER:**

- Gasoline is extremely flammable and explosive under certain conditions.
- Refuel in well-ventilated places with the engine stopped. Do not smoke or allow flames or sparks near the places where the engine is refueled or gasoline is stored.
- Do not add fuel over the shoulder of strainer. After fueling, tighten the tank cover.
- Fuel vapors are extremely flammable and may ignite after the engine has started. Make sure that any fuel spillage has been wiped off before starting the engine.
- Avoid skin coming in contact with gasoline for a long time, avoid breathing in gasoline vapors. Keep children away from them.

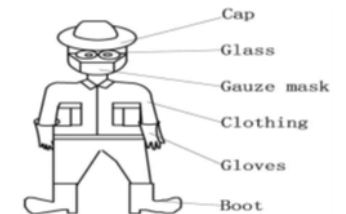
**BEFORE GETTING STARTED**

Please read and follow the instructions in this manual before using the machine. The user should be familiar with the safety notices, machine performance, and maintenance, etc. The operation manual will be used later in case of any repair, accessories replacement, and accessories procurement, so preserve it carefully.

**SAFETY INSTRUCTIONS**

- Using this machine with extra high pressure is prohibited ( $\leq 35\text{kgf/cm}^2$ );
- The rotary parts should have safety protective device;
- Protective Clothing:

- Wear flange cap.
- Wear dirt/fog-proof glasses.
- Wear gauze mask.
- Wear long gloves.
- Wear coat guarding against poisons.
- Wear boots.



- Spraying towards personnel and working at the downwind position are prohibited;
- Running the machine without water or lubricating oil is prohibited;
- Using special working solutions as strong acid, strong alkali, etc. is prohibited
- Following personnel should not use the machine:
  - Mentally challenged.
  - Drunk.
  - Under the age of 18 or older people.
  - Person with no knowledge of the machine.
  - Tired person or patient and others who cannot operate the machine normally.
  - A person who has just exercised strenuously or has not slept enough. Women feeding breast milk to the baby or is pregnant.
- Spraying
  - It is fine to carry out an operation during cool weather with little wind. For example, early in the mornings or in the late afternoons as this can reduce the evaporation and drift of chemicals and improve the protective effect.
  - The operator should move windward.
  - If your mouth or eyes are spattered with chemicals, wash them with clean water and then visit a doctor.
  - If the operator has a headache or dizziness, should stop working at once and consult a doctor immediately.
  - For the operator's safety, misting/dusting must be carried out strictly according to the instruction of the chemicals and agricultural requirements.

- Spray over, according to pesticide manual to clean out any residual spray mixture in chemical tank.
- After spraying always wash your hands and face thoroughly

Other instructions:

- Using this machine with extra high pressure is prohibited (should be  $\leq 35$  kgf/cm<sup>2</sup>)
- Running without water or lubricating oil is prohibited.
- Using special working solutions as strong acid, strong alkali etc. is prohibited and should operate strictly according to the safety instructions given in this manual

### OPERATING INSTRUCTIONS

1. Securely mount the machine on the frame, ensure the two belt pulleys are parallel and on the same plane and the tension of the belt is moderate.
2. Add engine oil up to ½ of oil gauge plug.
3. The connectors of each rubber pipe and high pressure pipe must be locked tightly.
4. Before starting the motor, open the jet gun and ball cock and loosen the adjusting screw.
5. Start the motor, keeping it at appropriate velocity, waiting there is water ejecting from the jet gun, close the jet gun or ball cock and adjust the adjusting screw to let the pressure reach the working pressure.
6. Turn on the ball cock and jet gun, beginning spraying. During the process you may properly adjust the adjusting screw to maintain the required pressure and lock tightly the fly nut at any moment.
7. Firstly dismantle the suction hose, waiting there is no water flowing out from the jet gun or the overflow hose, stop the machine and dismantle overflow hose, high pressure pipe, and loosen the adjusting screw.

### TROUBLESHOOTING GUIDE

Trouble	Probable Cause	Solution
Can't supply water, Unstable pressure	Strainer Assembly blocked	Clean Strainer Assembly
	Suction Hose is leaking	Lock tightly Wing Net or replace Packing
	Redundant air inside pump	Exhaust redundant air from the pump
	Valve damaged or blocked	Eliminate impurities or replace Valve Seal
Cylinder leaked	Grand too loose	Add spare washer ( After stopping the machine)
	V-packing damaged	Replace the V-packing

Do not run the engine without air cleaner.

**! DANGER**

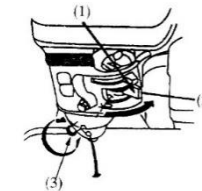
Using gasoline or flammable solvent to clean the filter element can cause a fire or explosion.

**! CAUTION:**

Do not run the engine without air cleaner core, otherwise dust and/or other foreign matters may get into the engine through carburetor, and results in rapid engine worn-out.

### STARTING THE ENGINE

- Turn the fuel valve to ON position, unscrew the drain plug on carburetor bottom, and fasten the drain plug until oil spills out.
- Pull the choke rod to the CLOSE position. Adjust throttle to proper position. Pull the starter grip lightly until resistance is felt, then pull it rapidly



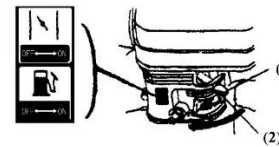
(1) Fuel Valve

(2) Start Level

(3) Drain Plug

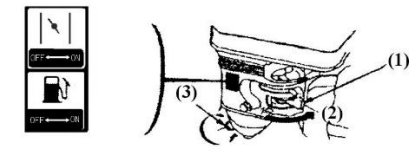
**NOTE:**

- Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.
- Once the engine got started, let it run for 1~3 minutes at idle speed, check whether it is balanced, cracked, then pull the throttle to open position, adjust choke rod to OPEN.



(1) Auto-Throttle

(2) Off Position



(3) Starter Knob

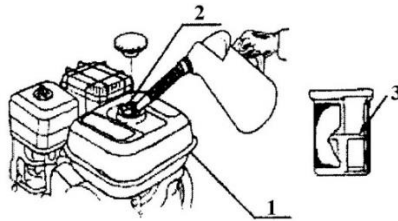


**2. Fuel level**

- Check the fuel gauge, and refill the tank if the fuel level is low. Do not fill above the shoulder of the fuel strainer. The fuel 90# gasoline is recommended.
- Unleaded gasoline produces less engine and spark plug fouling and extends exhaust system life.
- Never use stale or contaminated gasoline or oil/gasoline mixture. Avoid dirt, rubbish and water from getting into the fuel tank.
- If spark knock or pinging occurs at a steady engine speed under normal load, change brands of gasoline. If spark knock or pinging persists, see an authorized dealer.

**! WARNING:**

- Running the engine with persistent spark knock or pinging can cause engine damage.
- If persistent spark knocks or pinging is caused by improper usage of the unit, the Distributor's Limited Warranty does not cover parts damaged by that.

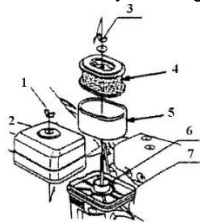


(1) Fuel tank                      (2) Fill in hole                      (3) Red line level

**3. Air cleaner**

The air cleaner is a dry type including paper element and foam element.

- Remove the clip and dismantle the air cleaner housing or remove the wing nuts and air cleaner cover.
- Wash the element in solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or high flash point solvent. Allow the element to dry thoroughly



- 1) Butterfly nut
- 2) Air cleaner cover
- 3) Butterfly nut
- 4) Paper element
- 5) Foam element
- 6) Seal washer
- 7) Silencer plate

**! WARNING:**

Trouble	Probable Cause	Solution
Pressure shortage	Improper pressure adjustment	Adjust adjusting screw to proper pressure
	High pressure pipe is leaking	Check, repair, or replace high pressure pipe
	Valve or valve seat damaged	Replace valve or valve seat
Oil leakage	Oil seal damaged, unlocked tightly	Lock tightly or replace relevant oil seal
Temperature Too high	No lubricating oil or is too dirty	Replace with clean lubricating oil
	Pressure or velocity too high	Adjust to proper pressure or velocity

**MAINTENANCE AND STORAGE**

1. Replace the oil after first 40 hours, and afterwards replace it once in every 70 hours.
2. Each and every time once the work is finished operate it with clean water for 2~3 minutes to eliminate the residual chemical and keep all the parts clean.
3. For long term storage, clean and wipe the spraying machine dry and place it in a cool and dry place.

**TECHNICAL SPECIFICATIONS**

Model	KK-P999
Power	4.2 kW (5.5hp)
Displacement	163 cc
Engine Type	4 - stroke
Working Pressure	20-35 kgf/cm <sup>2</sup>
Speed	1800 rpm
Plunger size (dia)	25 mm
Suction	24 L/min
Stroke	9 mm
Oil	30-40#
Net weight	25 kg

**PETROL ENGINE-OPERATION MANUAL**

**SAFETY INSTRUCTIONS**

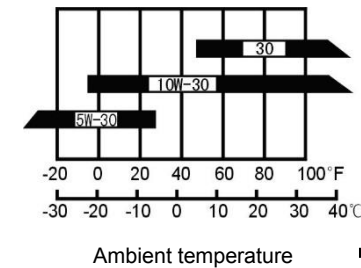
1. Please perform some pre-operation checks before operation to avoid human injury and equipment damage.
2. Keep the engine in good ventilated places at least 1 meter away from buildings and other equipment's during operation and keep the flammable substances away from the engine to avoid fire.
3. Keep children and pets away from the operation area.
4. Make sure that the person who operates the engine receives proper instruction.
5. Keep the flammable substances (gasoline, matches) away from the operating engine.
6. As gasoline is extremely flammable and explosive under certain conditions, please refuel in a well-ventilated area with the engine stopped.
7. Do not fill above the shoulder of the fuel strainer.
8. Make sure the fuel cover is tightened.
9. Make sure that any spilled fuel has been wiped off before starting the engine.
10. Do not smoke or allow flames or sparks where the engine is refueled or where gasoline is stored.
11. Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death. Do not operate the engine without good ventilation or in enclosed room.
12. If you run the engine in an area that is confined, or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas. Provide adequate ventilation so as to keep exhaust gas from accumulation.
13. Place the engine on flat (level) surface, tilting angle of the engine should not be more than 20°, otherwise it will lead to fuel spilling out.
14. Do not cover the engine so as to avoid fire occurrence.
15. The muffler becomes very hot during and immediately after operation. Be careful not to touch the muffler while it is hot. Let the engine cool down before storing the engine indoor.

**PRE-OPERATION CHECKS**

**1. Check the oil level**

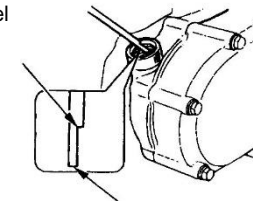
**Lubricating oil:**

- Engine lubricant oil is a major factor affecting engine performance and service life.
- The use of the lubricating oil free of cleaning agent or the lubricating oil for the two-stroke engine will shorten the life of the gasoline engine.
- The operating temperature range recommended for the gasoline engine is -5°C-40°C.
- Use 4-stroke motor lubricant oil. 20W-40 is recommended in general, at all temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.



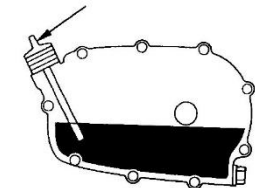
- Before checking engine lubricant oil, place the engine on level surface
- Turn out the oil filler cap and clean the dipstick with a clean cloth.
- Insert the dipstick back into the oil filler hole without turning it in.
- If oil level is below the lower mark of the dipstick, fill oil to the upper level of the dipstick.
- Reinstall the oil filler cap properly.

Upper level



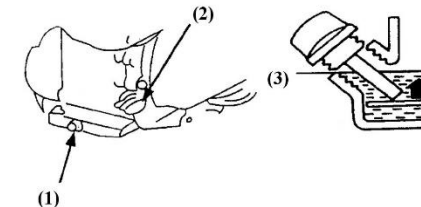
Lower level

Dipstick



**Engine oil alert system (optional function):**

The oil alert system is designed to prevent engine damage caused by insufficient oil in the crankcase. When the oil level in the crankcase falls below the safe limit, the oil alert system will automatically stop the engine even if the engine switch remains at the ON position. If the engine stops and cannot be restarted, check the engine oil level before troubleshooting in other areas.



(1) Drain plug

(2) Engine switch

(3) Lower level