

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 warranties hereunder, including, but not limited to, any implied warranty of merchantability must be brought within the applicable warranty period.

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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

Product	Agricultural Portable Sprayer	KisanKraft Invoice Date	
Brand	KisanKraft	KisanKraft Invoice No.	
Model	☐ KK-P735, ☐ KK-P750		
WARRANTY PERIOD	6-MONTHS	FOR THE SPECIFIED PERIOD FROM THE DATE OF SALE OR DELIVERY WHICHEVER IS EARLIER.	
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- (1) Operation of product with incorrect fuel or lubricants,
- (2) Incorrect usage of machine or misuse,
- (3) Lack of maintenance,
- (4) Negligence,
- (5) Accident or physical damage,
- (6) Repairs made by unauthorized parties and/or with unauthorized parts,
- (7) Improper setup, adjustments, tampering or altered products
- (8) Any modification to the product what-so-ever.

Important: (1) Normal maintenance and adjustments to the product are the responsibility of the customer. (2) Normal wear and tears are not covered under warranty. (3) Rubber/plastic parts and consumables such as blades, clutch and clutch-bell, sparkplugs, nylon line, air filters, fuel filters, oil seals and gaskets, etc. not covered under the warranty. (4) Electrical Motor, Electrical Parts, Battery Etc. are not covered under the warranty.

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KisanKraft Limited



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

Warehouse: 818 3B1 to 818 3B18, Podalukur - Sangam Road, Prabagiripatnam, Podalukur, Nellore - 524345, Andhra Pradesh, INDIA

Head Office: #4, 1st Main, 7-A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore 560024, Karnataka, INDIA

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



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USER MANUAL-4-STROKE PETROL ENGINE 24

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

<p>Brush Cutters and Accessories</p> <ul style="list-style-type: none"> Brush Cutter/Power Weeder Backpack Brush Cutter Tea Pruner Pole pruner with Engine Reaper Attachment Blades-Circular Blades (2 & 3 points) Baffle Nylon Rope Tap & Go <p>Chainsaws</p> <ul style="list-style-type: none"> Petrol Chainsaw Electric Chainsaw Chain Sharpening Machine <p>Engines and Water Pumps</p> <ul style="list-style-type: none"> Engine –Diesel-(Horizontal) Engine –Diesel(Vertical) Engine-Kerosene Water Pump with Petrol Engine Water Pump with Kerosene Engine Water Pump with Diesel Engine <p>Hand Tools</p> <ul style="list-style-type: none"> Secateurs Folding Saw Garden Rake Garden Shovel Hedge Shear Lopper Telescopic Hedge Shear Telescopic Lopping Shear Tree Pruner Telescopic Steel Pipe & Fruit Picker Bag Sheep Shear <p>Garden Tools</p> <ul style="list-style-type: none"> Electric Pressure Washer Hedge Trimmer Lawn Mower (Electric, Petrol & Manual) Leaf Blower 	<p>Cultivators and Accessories</p> <ul style="list-style-type: none"> Petrol and Diesel <p>Sprayers and Accessories</p> <ul style="list-style-type: none"> Battery Sprayer Portable Power Sprayer Trolley Sprayer Manual Knapsack Sprayer Manual Pressure Sprayer Rose Cans Hose Crimping Machine HTP Sprayer HTP Delivery Hose HTP Hose Reel HTP Stand HTP Gun / Lance(Brass Rod) Knapsack Power Sprayer Mister / Duster / Granuel Spreader HTP Sprayer Set with Diesel Engine HTP Sprayer Set with Kerosene Engine Fogging Machine <p>Milking Machine</p> <ul style="list-style-type: none"> Wood Shredder Fodder Ensiling Chaff Cutter Fodder Grinder Chaff Cutter Fodder Mini Chaff Cutter <p>Harvester</p> <ul style="list-style-type: none"> Maize Sheller Maize Sheller + Dehusker Maize Combine Harvester Onion Digger Carlotti Italy Tea Leaf Harvester Sugarcane Combine Harvester Sugarcane Leaf Stripper <p>Transplanter and Post Hole Digger</p> <ul style="list-style-type: none"> Paddy Transplanter (2 & 8 Rows) Transplanter-Vegetable & Tobacco Post Hole Digger(4" to 14" Augers)
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2 months to 1 year	<ul style="list-style-type: none"> • Fill with fresh gasoline and add gasoline conditioner • Drain the carburetor float bowl • Drain the fuel sediment cup
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STORAGE

If the engine is not used for a long time, do the necessary maintenance before its storage.

- Firstly, take off the fuel tank, drain out all fuel, and clean the dirt and water inside the tank. Open the fuel cock, unscrew the drain plug at the bottom of carburetor, drain out fuel in carburetor thoroughly, and then tighten the drain plug.
- Secondly, unscrew the drain plug at the bottom of the crankcase and drain out the lubricant oil in the crankcase thoroughly, then tighten the drain plug.
- Finally, clean the surface of the engine with clean cloth, remove the dirt and dust etc. Then store the engine in a well-ventilated, dirt-free place.

TRANSPORTATION

- Contact with the hot engine or exhaust system can cause serious burns or fires. Allow the engine to cool down before transporting or storing the engine.
- During transport of the engine, turn the engine switch and the fuel valve to OFF. Keep the engine cool.

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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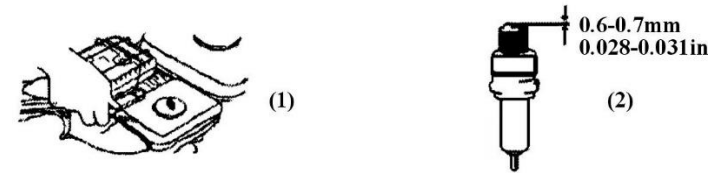
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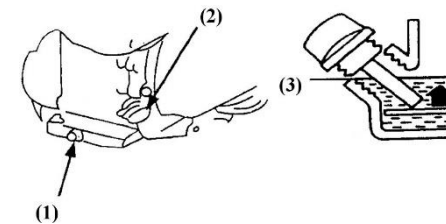
- Remove the drain plug and sealing washer, remove the oil filler cap, and drain the oil.
- Reinstall the drain plug and sealing washer. Tighten the plug securely.
- Refill with the recommended oil and check the oil level.



(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 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

(1) Throttle knob

(2) Throttle is at OFF

BEFORE GETTING STARTED

! 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.

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.

Thank you for your purchase and use of our products. In order to avoid accidents or injury, please read this manual carefully before using the machine. After reading, preserve it for further reference.

This Water pump is characterized by light weight, simple structure high efficiency, convenient use and flexible movement. It can be used for agricultural irrigation, drainage construction and pumping, especially widely used in recurrent irrigation of small areas for agricultural production at present.

SAFETY INSTRUCTIONS

1. Read the operation manual carefully before starting the engine in order to avoid any accident and damage.
2. Please do not use this engine inside an enclosed area. Ensure adequate ventilation while Engine is in operation.
3. To prevent fire hazard, please keep the Engine in operation at least 1-meter (3 feet) away from Combustible or Inflammable materials, buildings, and equipment.
4. When refueling you must STOP the Engine. Please do not smoke near Engine. Wipe the spilled fuel after refueling.
CAUTION: Spilled fuel is a fire hazard.
5. Always place the engine horizontally. Do NOT tilt the Engine more than 21 degrees. Overturning or inclining the engine may cause oil spillage and result in fire hazard.
6. Do NOT cover the Engine when in operation.
7. Children are strictly not allowed near the engine operation area.

OPERATION

PREPARATION BEFORE OPERATION:

1. Connect the suction pipe:
 - Place the filter into the empennage of the suction pipe with the tie-in.
 - Place another end into the input with the tie-in.
2. Connect the discharging pipe:
 - Place the discharge pipe into the output with the tie-in.
3. Check the oil:
 - Check the oil lever in the case that the engine is off and horizontal.
4. Check the fuel level:
 - Open the crankcase cover to check the fuel level. Please add fuel when the lever is low.
5. Check the air cleaner:
 - Disconnect the papilionaceous (flower petal like) nut washer and air cleaner filter.
 - Check whether the foam filter element is dirty, or air logged. Clean it if necessary.
 - Newly equipped the air cleaner and operate the engine until it is well equipped.
 - It would accelerate the abrasion if the dust or the pollutant is absorbed into the engine through carburetor.
6. Check the water pump:

- Check whether the water is added into the pump.
- The pump must be fully filled with water before operating.
- Operate the pump until the water is added so as to protect the airproof from the overheating in lasting operation without water.

STARTING THE ENGINE

1. Keep the fuel valve to "ON" position.
2. Shut down the throttle (throttle may be partly closing or open when the engine is warm or in the case of high temperature).
3. Keep the switch in the ON position.
4. Slowly move the regulating handle to the left.
5. Pull the start handgrip when feeling the resistance, then drawback swiftly.

USE

The use of the water pump:

1. Gradually open the throttle when the engine's warm.
2. Set a scheduled rotation speed.

STOPPING THE ENGINE

1. Move the regulating handle to the right.
2. Keep the switch in the "OFF" position.
3. Turn off the fuel valve.

MAINTENANCE

Oil:

Change the oil and quickly discharge the oil when the engine is hot. Replace the oil for the first time after 50 hours of cumulative operation. After that, replace the oil per 500 hours operation. The specific procedure is as follows:

- Disconnect the oil cap and drain plug, then discharge the oil, newly equip the drain plug and screw it down.
- Add the clean oil to the appointed oil level.

Air cleaner filter:

Air flow in the carburetor is reduced if air cleaner is dirty. In order to clean it:

- Move the papilionaceous nut and disconnect the air cleaner filter cover and the foam filter element with aprons cleaning and then air dry it.
- Dip the foam filter element into the clean oil and extrude the additional oil. Newly equipped the foam filter element and air cleaner filter.

Spark plug:

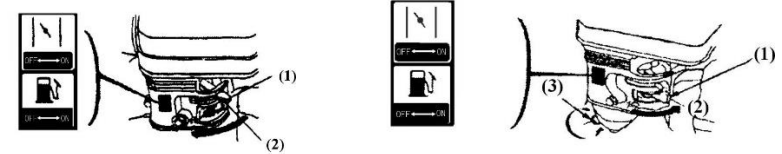
It would be kept 0.7-0.8 mm between the spark plug and no carbon so as to assure the normal running.

STORAGE

Cool the engine and keep the fuel valve in the "OFF" position before moving or storing indoors to avoid the burning or fire.

1. Keep the storage place dry and less dust.
2. Clean the inner parts of the engine.
3. Replace the oil after completely discharging the fuel tank and the carburetor.
4. Disconnect the spark plug to infuse 2-3 grams of oil into the cylinder and rotate the engine 3-4 times and then equip the spark plug.

- 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.



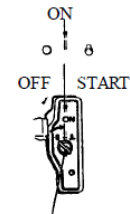
(1) Auto-Throttle

(2) Off Position

(3) Starter Knob

Electrical Starting:

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

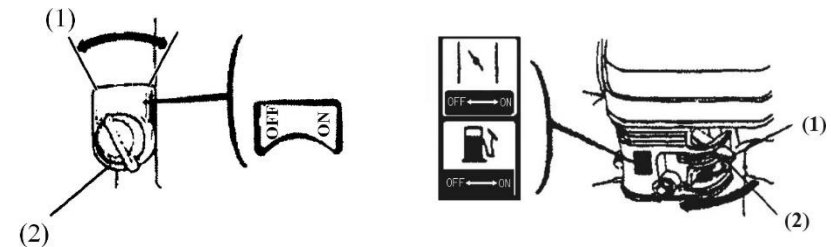


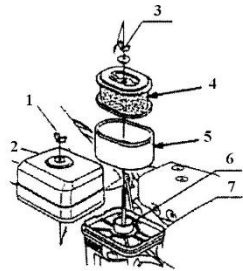
ENGINE SWITCH

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

! WARNING:

Do not run the engine without air cleaner.

! DANGER

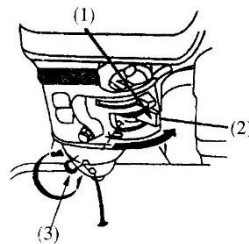
Using gasoline or flammable solvent to clean the filter element can cause a fire or explosion.

! 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:

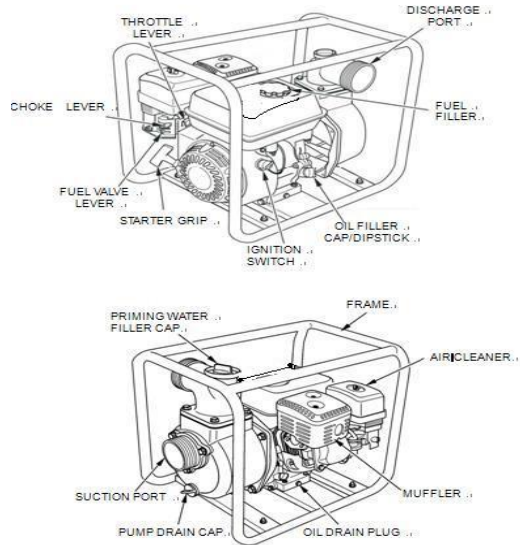
- Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

- 5. Cover the pump cover to avoid dust.

TROUBLESHOOTING

Problem	Probable cause	Action to be taken
The Engine can't be started	Refer the Engine manual	Refer the Engine manual
The pump cannot pump water	The water infused is not enough	Fill the pump with enough water.
	The filter is air – logged.	Clear the air from the filter.
	The tie-in is not firmly equipped , Suction pile is leaking.	Ensure proper suction Packing is proper and leak free.
	The pipe is damaged.	Replace the pipe.
	Whether the head lift is too high	Never exceed the rated max. Lift, if so lower the head lift.
Insufficient flux	Any block with impeller or strainer	Remove the blockage in the strainer
	Gas leakage in inlet pipe	Fix any leakage in the pipe
	Damage in impeller	Replace the impeller

DESCRIPTION OF COMPONENTS KK-WPCI-2520



THE PREPARATION BEFORE OPERATION

3. 1 Check the engine conditions.
 - 3.1.1 Check around the engine if it has gasoline or oil leakage.
 - 3.1.2 Get rid of dirt and fragments, especially, around the muffler and startup.
 - 3.1.3 Check the mark of damage.
 - 3.1.4 Check the cap if it is tight, and the connection is firm.
3. 2. Connect the inlet water pipe.
 - Use the general water pipe, joints, and clamp.

The inlet water pipe must be in a continuous and unfolded structure. The length of the water pipe must not exceed the required length. The pump will have the optimum performance when the distance between the pump and water source is not far. The self-suction time is proportional to the inlet water pipe length directly.

·The filter should be fitted on the end of inlet water pipe with the clamp, as shown on figure below.

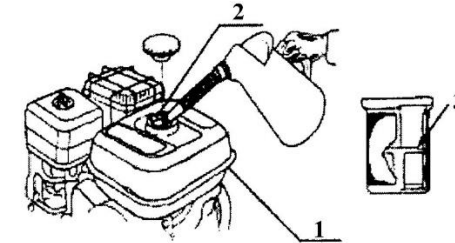
- (1) Drain plug
- (2) Engine switch
- (3) Lower level

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.

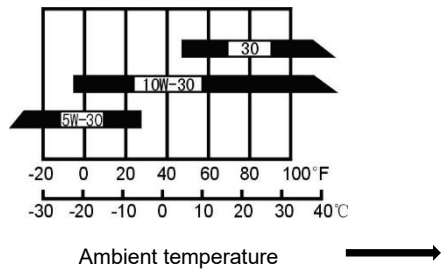


- (1) Fuel tank
- (2) Fill in hole
- (3) Red line level

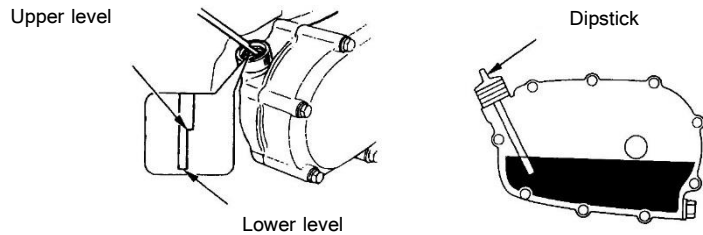
Air Cleaner

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

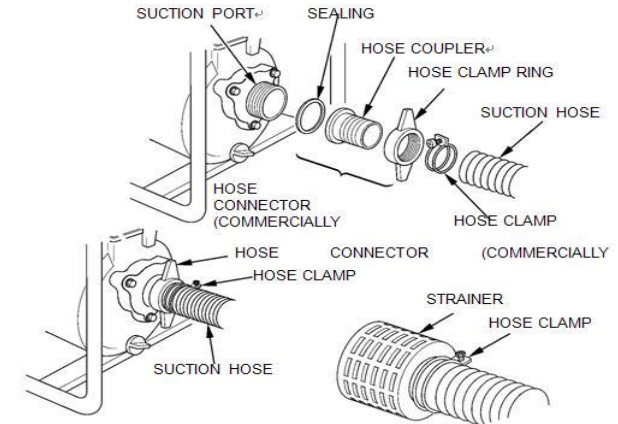
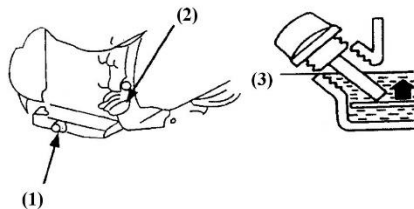


- Before checking engine lubricant oil, place the engine on level surface
- Turn out the oil filler cap and clean the dipstick with a clean cloth.
- Insert the dipstick back into the oil filler hole without turning it in.
- If oil level is below the lower mark of the dipstick, fill oil to the upper level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



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.



Attention:

- Before pumping, fit the filter.
- Tighten the joint and clamp, ensure the inlet pipe is tight and there is no air leakage.

3.3 Connect the outlet water pipe

Use the general water pipe, joints, and clamp to connect the outlet water pipe and ensure the clamp been tightened firmly.

3.4 Check the level of Lubricant oil

Attention:

The gasoline engine of pump set is free of the Lubricant oil when ex-factory. Please fill the engine with the 10W-SAE or equivalent one before the first-time usage. The dirt oil or other Lubricant oil is not allowed.

- When checking the oil level, the engine should be stopped and horizontal.
- Remove the oil dipstick, clean it and insert it into oil filling hole, but do not screw it.
- If oil level is too low, add the oil to the top of filling hole.

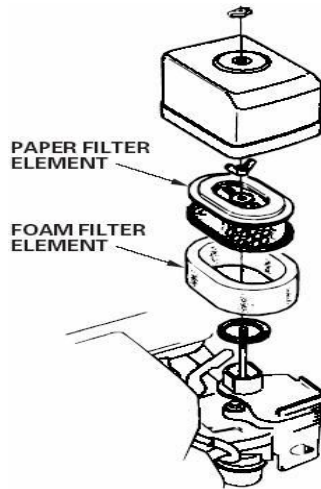
Warning: If the Lubricant oil is not enough, the engine will be damaged seriously.

3.5 Check the level of fuel oil

- Remove the fuel oil tank cover and check the fuel oil level, If the level is too low, add 90# gasoline.
- Do not use mixture oil of Lubricant oil and gasoline.
- Avoid the dirty material and water entering into the fuel oil tank.

Attention:

- Do not allow the fuel oil to overflow the oil tank. After adding, tighten the cover firmly.
- Do not allow the fuel oil to spray out, if it is so, clean and wipe it off before starting the engine.
- Avoid your skin to contact with gasoline for a long time and put it on the place where the children cannot reach.



cleaner filter element

3.6 Check air

- Remove butterfly nut, washer, and air cleaner cover.
- Check the filter element, if necessary, clean it.

Cautions:

When the air cleaner is not mounted on the engine, the engine should not be started, otherwise, the dirt will be sucked into engine through the carburetor, then the engine will be worn out increasingly.

3.7 Check the pump

Before working, the pump must be filled up with water.

Cautions:

- Don't operate when there is no water in the pump or the temperature of the pump is too high, Otherwise, the pump seal will be damaged. If you find the pump operates

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

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.

USER MANUAL-4-STROKE PETROL ENGINE



BEFORE GETTING STARTED

Thank you for your purchase and use of our products. In order to avoid accidents or injury, **please read this manual carefully** before using the machine. After reading, preserve it for further reference. This manual is a part of the gasoline engine and should be transferred when the machine is resold.

SAFETY LABELS

! DANGER

Indicates a hazard, if not avoided, can result in human injury or death.

! WARNING

Indicates a hazard, if not avoided, could result in human injury and/or property damage.

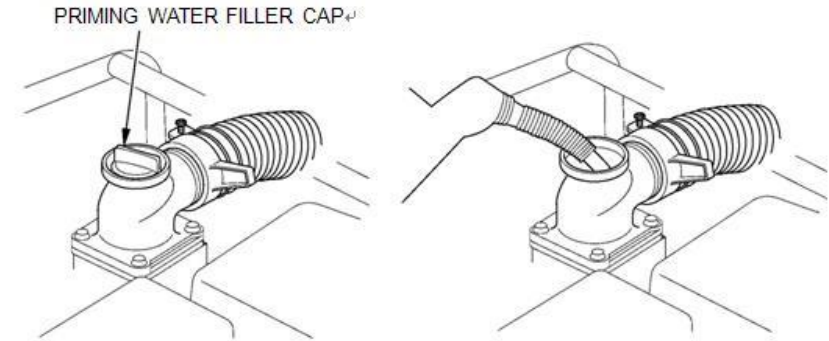
CAUTION

Indicates a hazard, if not avoided, might result in slight injury and/or property damage.



Please read and understand this owner's manual before operation of the engine to avoid accidents by familiarizing yourself with your engine's controls and safe operation procedures.

without water, stop the engine immediately and add water into pump after it cools down.

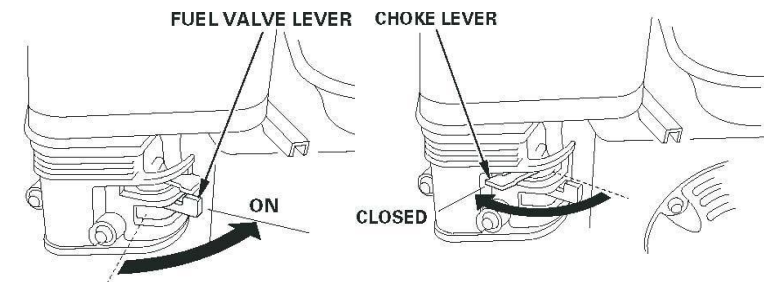


OPERATION

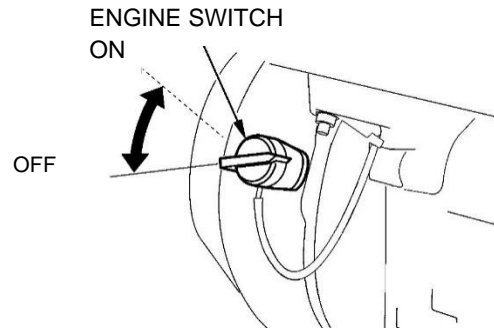
- 4.1 Open the fuel cock.
- 4.2 Close the choke.

Attention:

When the engine is in hot condition or the surrounding temperature is very high, it's unnecessary to use the choke (that means do not close the choke before start).

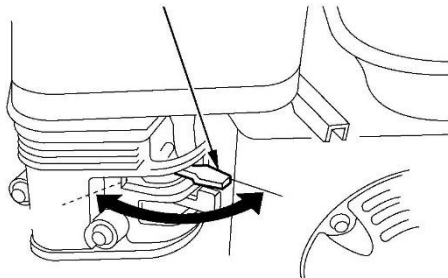


4.3 Put the engine switch to "ON" position.



4.4 Move the choke control lever to the left side slowly.

Throttle valve control lever



4.5 Pull the starting

handle slightly till the resistance force is felt, then, Pull it up quickly.

Cautions:

Slightly release the starting handle when engine has been started, lest that the starter would be damaged due to sudden release.

4.6 After the engine has been warmed up, turn the choke gradually.

Choke control lever

Inspection of outlet pipe	Damaged pipe, overlong pipe, shorter pipe diameter	Replacement of pipe
Measurement of suction and lift	Reach to critical lift	Adjust pump and lift
Inspection of engine	Shortage of power	See "chart 2"

TECHNICAL SPECIFICATIONS

Model	KK-P735	KK-P750
Displacement	35.8cc	50 cc
Engine Type	4 Stroke	
Rated rotation speed (rpm)	6500 RPM	
Fuel Used	Petrol	
Fuel Tank Capacity	1L	
Net Weight	18kg/17kgs	
Inlet / Outlet Port (Diameter)	3MPA	
Suction (vertical)	5M	
Delivery (horizontal)	50 M	
Max flow	100 M	
Head lift	6-8 M	

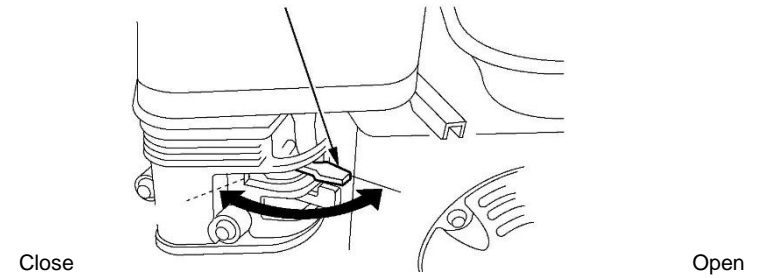
Pump

Chart 3

No water come out	Cause	Solution
Inspection of inside chamber	Forgetting to fill water in	To fill water in
	Rupture of inlet pipe, appearance of hole	Replacement of inlet pipe
	Filter gauze didn't soak under water completely	To make inlet pipe end and filter gauze soak in the water completely
Inspection of inlet pipe	Leak of pipe junction	Tighten clamp, replace sealing gasket if no gasket or damaged gasket
	Blocking of filter gauze	Remove blockage
Measurement of suction and lift	Too high for lift	Adjust pump and lift
Inspection of engine	Shortage of power	See "chart 2"

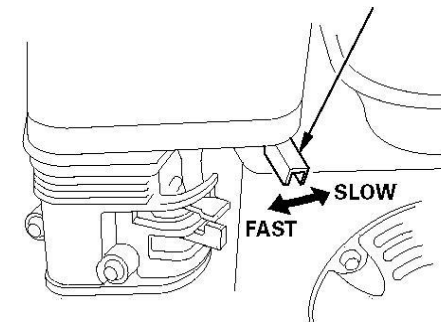
Chart 4

Small flow	Cause	Solution
Inspection inlet pipe	Collapsed pipe, damaged pipe, overlong pipe, shorter pipe diameter	Replacement of inlet pipe
	Leak of pipe junction	Tighten clamp, replace sealing gasket if no gasket or damaged gasket
	Blocking of filter gauze	Remove blockage



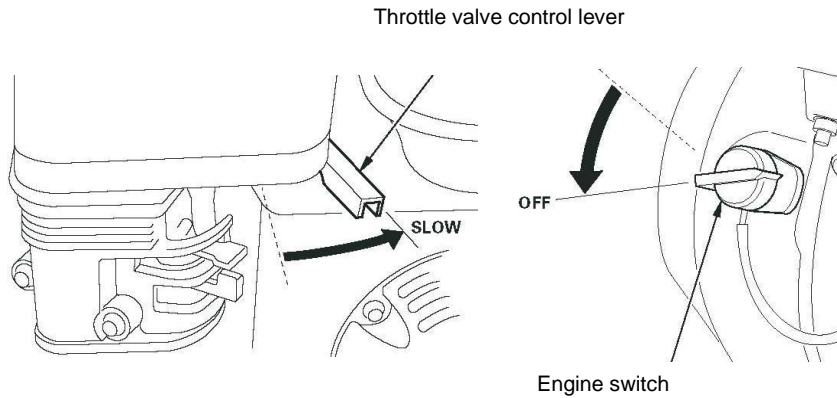
4.7 Put the throttle valve at the preset speed position.

Throttle valve control lever



5. Stop the engine

- a) Move the throttle valve control lever to the right end.
- b) Put the engine switch to the "OFF" position.



c) Put the fuel oil cock to "OFF" position.

Attention

Stop the engine in an emergency situation. Directly put the engine switch to "OFF" position.

MAINTENANCE

- In order to keep this water pump in good performance, it is necessary to check and adjust it periodically, which can help to extend the life of the pump.
 - **Attention**
 - Before maintenance, be sure to stop the engine. If the maintenance must be carried out in a running state, make sure the engine is at a ventilated place. The exhaust gas of Co is very harmful for your health.
 - If this pump has to be used for pumping sea water, please pump the fresh water immediately after that to reduce the corrosion and to flush out the remaining sea water.
 - 6.1. Change the engine oil (Lubricant oil)
 - Change the engine oil after initial usage of the pump set for one month or 20 hours, after that, change the oil every six months or every 300 hours regularly.
 - Change the engine oil when the engine is still hot in order to drain out oil thoroughly.
- a. Remove the oil dipstick and drain plug, then start draining the used oil.
 - b. Refit the oil drain plug and tighten it firmly.

Contact agency for trouble shooting	Blocking of Fuel and air filter, breakdown of carburetor or ignition system, seizure of valve etc.	Repairment or replacement
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Chart 2

Shortage of power	Cause	Solution
inspection of air filter element	Blocking of element	Clear and wash element or replace element
Inspection of fuel	Deterioration of fuel	Drain off fuel inside carburetor and fuel tank, then fill up new fuel
Contact agency for trouble shooting	Blocking of Fuel and air filter, breakdown of carburetor or ignition, system, seizure of valve etc.	Repairment or replacement

Valve clearance	Adjustment					○ (2)
Cylinder cover	Clear and wash	300 hours (2)				
Fuel tank	Clear and wash	200 hours (2)				
Filter gauze						
Oil pipe						
fan	Inspection					○ (2)
Fan clearance						
Bottom valve						

- (1) Maintenance should be strengthened in high dust areas.
- (2) All the items above should be assisted by a local agency.

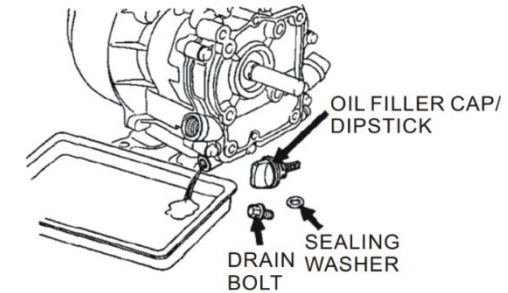
TROUBLESHOOTING

Engine

Chart 1

Can't start up	Cause	Solution
Inspection of control parts	Fuel switch closed	To open fuel valve
	Chocker opened	Close Chocker unless hot engine
	Switch of engine closed	Turn on engine switch
Inspection of fuel	Lack of fuel	Filling up fuel
Remove spark plug and inspect	Incorrect or damaged plug clearance	Adjustment or replacement
	Wetting plug due to excessive fuel	Dry out and reinstall plug Adjust speed to high speed and start up

- c. Add the new engine oil up to the required level. The oil volume is 0.6L. If you contact engine oil, please wash your hands with soap and clean water.



6.2. Maintain the air cleaner:

A dirt air cleaner will block the air flow into the carburetor. Please clean the air cleaner periodically. If the working environment is very dirty, the maintenance frequency for air cleaners should be increased.

Cautions:

When the air cleaner is not mounted on the engine, do not operate the engine, otherwise, the dirt will be sucked into engine, which will shorten the life of the engine.

- a. Remove butterfly Nut, take off the cover of cleaner, and then take out the filter element.
- b. Clean the filter element with unflammable or high-flame-point solvent. Then let it dry thoroughly.
- c. Soak the filter element into the clean engine oil, squeeze out the surplus engine oil, otherwise the engine will have smoke with initial startup.
- d. re-assembles the filter element and cleaner cover.

6.3. Maintenance of the spark plug:

In order to ensure the normal start of the engine, make sure that the spark plug has proper clearance or gaps, and there is no carbon laydown.

- a. Remove the cap of spark plug and clean the dirt at its bottom.

Warning

- a. When engine is running, the muffler will be very hot. Do not touch the muffler.

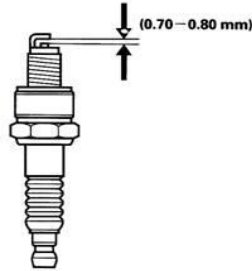
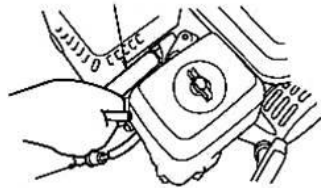
b. Inspect the spark plug. If it wears out or has obvious damage or crack on the isolating ring, please replace it with a new one. If it has carbon laydown, clean with brush.

c. Measure the clearance of spark plug with feeler.

d. Correct the clearance by moving the side electrode.

The spark plug clearance is about 0.7-0.8 mm.

e. Check the spark plug seal-ring, screw in the spark plug with special spanner so as to protect its threads.



Attention:

·When fitting the new spark plug, after pressing against the seal-ring, the new spark plug should be screwed 1/2 turn more. If the spark plug is a used one, 1/8~1/4 turn move.

Caution:

Make sure to tighten the spark plug firmly, if it is not so, it will be overheating and thus damage the engine easily. Do not use the spark plug with unsuitable calorific value range to avoid damage of the engine.

7. Transportation and storage

·Cool down engine before handling and storage.

· When handling water pump, put the fuel cock to "OFF" position and place the pump set horizontally to avoid spraying out of the fuel.

Before long period storage:

7.1 Make sure that the storage area is dry and clean.

7.2 Clean the internal of the pump set, and flush it with clean water. Then unscrew the water drain plug to drain out the water inside thoroughly.

7.3 Drain out the fuel.

a. Put the fuel cock to "OFF" position, remove the drain screw of the float chamber of the Carburetor.

b. Put the fuel cock to "ON" position, drain out the fuel in tank.

c. Refit the drain screw of the Carburetor.

7.4 Change the engine oil.

7.5 Remove the spark plug, add a little clean engine oil in cylinder, turn the crankshaft several cycles to lubricate the cylinder and piston, then refit the spark plug.

7.6 Cover the pump set to avoid dust.

8. Troubleshooting

If the engine cannot be started, check whether:

8.1. The fuel oil is not enough.

8.2. The fuel cock is not open.

8.3. The fuel has not reached the carburetor.

After putting the fuel cock to "ON" position, remove the drain plug at the bottom of carburetor to check whether the fuel has reached the carburetor.

Attention:

If the fuel sprays out, clean and wipe it off before testing the spark plug and starting the engine.

8.4. The engine switch is in "ON" position.

8.5. The engine oil in crankcase is enough.

8.6. The spark plug is in good condition.

Remove the spark plug cap, clean it, and adjust the spark plug clearance.

Pull up kick starter, if there's no spark, change the spark plug.

8.7. If the engine still cannot be started, please send the pump set to the service station for repairing.

8.8 If the pump cannot be pumping water, check whether:

a. The added water is enough.

b. The filter is blocked.

c. The pipe clamp is fixed firmly.

d. The water pipe is damaged.

e. The suck distance is too high.

9. Maintenance timetable

Regular Maintenance		per time	20 hours/ first month	50 hours/ three months	100 hours/ six months	300 hours/ one year
oil	Inspection of oil level	○				
	Replacement		○		○	
Air filter	Inspection	○				
	Clear			○ (1)		
Spark plug	Clear				○	
	Replacement					○