

Warranty Certificate

(KISANKRAFT COPY)

Important: (1) Normal maintenance and adjustments to the product is the responsibility of the customer. (2) Normal wear and tear is not covered under warranty. (3) Rubber/plastic parts and consumables such as blades, clutch and clutch-bell, spark-plugs, nylon line, air-filters, fuel-filters, oil seals etc. are not covered under the warranty.

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.

Modifications of Warranty: No agent, representative, dealer, or employee of KisanKraft Limited or any of its manufacturers has the authority to increase or alter the obligations of this warranty.

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What you must do to obtain limited warranty service: To obtain performance of any obligation under this warranty for failure during the applicable warranty period, deliver the defective product, to the nearest Authorized Dealer. KisanKraft Limited, its manufacturers and its dealers reserve the right to inspect the claimed defective part(s) to determine if the malfunction is the result of a defect covered by this warranty. Please note that the decision of KisanKraft Limited with respect to any warranty claim is final.

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Jurisdiction: All disputes are subject to Bangalore court's jurisdiction.

Our Products

- ◆Chainsaws◆Brush Cutters and Accessories◆Harvesters◆
- ◆Engines and Water Pumps◆Hand Tools◆Garden Tools ◆
- ◆Cultivators and Accessories◆Sprayers and Accessories◆
- ◆Transplanter and Post Hole Digger ◆ Milking Machines ◆

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)

(\$): www.kisankraft.com

2: +91.80.22178200

KisanKraft[®]

Warranty Certificate

(DEALER COPY)

Product	Spark Ignition Internal Combustion Piston Engines for Agriculture	KisanKraft Invoice Date	
Brand	KisanKraft	KisanKraft Invoice No.	
Model	☐ KK-PE4-163 ☐ KK-PE4-203		
WARRANTY PERIOD	6 MONTHS	FOR THE SPECIFIED PERIOD FRO THE DATE OF SALE OR DELIVER WHICHEVER IS EARLIER.	
Dealer's Invoice Date		Dealer's Invoice No.	
Buyer's Info (Name, Address, Phone, etc.):		Dealer's Stamp (Adetc.):	ddress, Phone, TIN,
Buyer's Sign		Dealer's Sign	_

What is covered: KisanKraft Limited and its manufacturers warrant this product to be free from defects in material or workmanship. All parts defective in material and workmanship are covered.

This warranty will only cover defects arising under normal usage.

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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 set up, adjustments, tampering or altered products

Note: The purchase is not contingent upon a product demonstration. The purchaser shall satisfy himself with the product, including any product demonstration or verification of any function, before buying. KisanKraft Limited or its authorized dealers, including online sellers, shall not be liable to give any onsite demonstration after purchase of any of the product.

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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.





Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

User Manual



KisanKraft Limited

(Formerly known as KisanKraft Machine Tools Pvt. Ltd)

Sri Huchhanna Tower, #4,1st Main,7-A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore 560024,Karnataka, INDIA

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

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PRODUCT RANGE

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

Brush Cutters and Accessories

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

Chainsaws

Petrol Chainsaw

Electric Chainsaw

Chain Sharpening Machine

Engines and Water Pumps

Engine - Diesel-(Horizontal)

Engine – Diesel (Vertical)

Engine-Kerosene

Water Pump with Petrol Engine

Water Pump with Kerosene Engine

Water Pump with Diesel Engine

Hand Tools

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

Garden Tools

Electric Pressure Washer

Hedge Trimmer

Lawn Mower (Electric, Petrol & Manual)

Leaf Blower

Cultivators and Accessories

Petrol and Diesel

Sprayers and Accessories

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

Milking Machine

Wood Shredder

Fodder Ensiling Chaff Cutter

Fodder Grinder Chaff Cutter

Fodder Mini Chaff Cutter

Harvester

Maize Sheller

Maize Sheller + Dehusker

Maize Combine Harvester

Onion Digger Carlotti Italy

Tea Leaf Harvester

Sugarcane Combine Harvester

Sugarcane Leaf Stripper

Transplanter and Post Hole Digger

Paddy Transplanter (2 & 8 Rows) Transplanter-Vegetable & Tobacco Post Hole Digger(4" to 14"Augers)



SL-No	KK-No	KK-Name	Qty
3	E15-03	Fuel tank cap	1
4	E15-04	Gasket Fuel tank Cap	1
5	E15-05	Fuel tank	1
6	E15-06	Fuel Filter	1
7	E15-07	Fuel Tube M4.5×140	1
8	E15-08	Clip Fuel tube	2
9	E15-09	0-ring 14mm(Fuel outlet joint)	1
10	E15-10	Nut M6 Flanged	2
11	E15-11	Bolt M6x30 Flanged Hex	1



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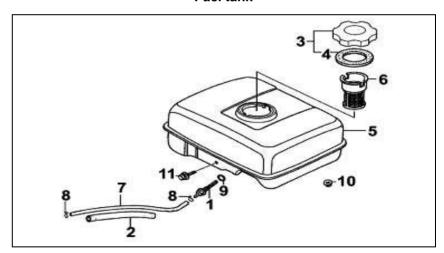
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Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

SL-No	KK-No	KK-Name	Qty
1	E14-01	Muffler Assy	1
2	E14-02	N/A	1
3	E14-03	N/A	1
4	E14-04	Screw M5 x 8	4
5	E14-05	N/A	1
6	E14-06	Nut M8	2
7	E14-07	Gasket Muffler	1

Fuel tank



SL-No	KK-No	KK-Name	Qty
1	E15-01	Fuel outlet joint	1
2	E15-02	Sleeve Fuel pipe	1

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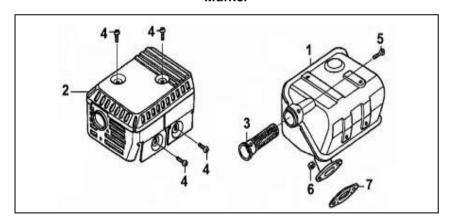
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SL-No	KK-No	KK-Name	Qty
8	E13-08	N/A	1
9	E13-09	Air Cleaner Seat Assy	1
10	E13-10	Butter Fly nut M6	2
11	E13-11	Nut M6	2
12	E13-12	ST Screw M4 x 12	1
13	E13-13	N/A	1
14	E13-14	N/A	1
15	E13-15	N/A	1
16	E13-16	N/A	1
17	E13-17	N/A	1

Muffler





Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

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



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



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



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.

SAFETY INSTRUCTIONS

- Please perform some pre-operation checks before operation to avoid human injury and equipment damage.
- 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.
- Keep the flammable substances (gasoline, matches) away from the operating engine.
- 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.
- 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.



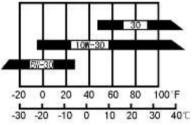
- Place the engine on flat (level) surface, tilting angle of the engine should not be more than 20°, otherwise it will lead to fuel spilling out.
- 14. Do not cover the engine so as to avoid fire occurrence.
- 15. The muffler becomes very hot during and immediately after operation. Be careful not to touch the muffler while it is hot. Let the engine cool down before storing the engine indoor.

PRE-OPERATION CHECKS

A. 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.



Ambient temperature

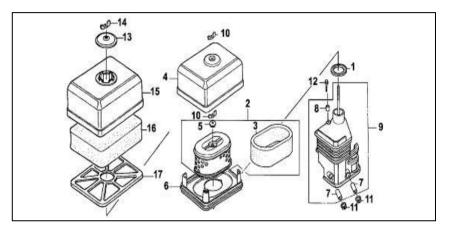
- Before checking engine lubricant oil, place the engine on level surface
- Turn out the oil filler cap and clean the dipstick with a clean cloth.
- Insert the dipstick back into the oil filler hole without turning it in.
- If oil level is below the lower mark of the dipstick, fill oil to the upper level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



Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

SL-No	KK-No	KK-Name	Qty
8	E12-08	Bolt 6 x 25	2
9	E12-09	Nut M14 Fly wheel Assy	1

Air Cleaner



SL-No	KK-No	KK-Name	Qty
	E13	Air Cleaner Assy	1
1	E13-01	Seal Ring 32x47x3	1
2	E13-02	Air Filter Element	1
3	E13-03	N/A	1
4	E13-04	Filter Case	1
5	E13-05	Rubber Fixer	1
6	E13-06	Cover board	1
7	E13-07	N/A	2

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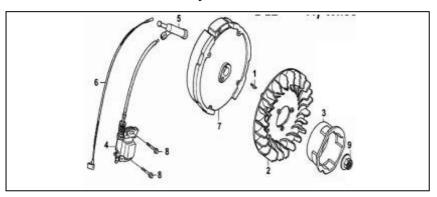
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SL-No	KK-No	KK-Name	Qty
14	E11-14	Fine Adjustment Spring	1
15	E11-15	N/A	1
16	E11-16	Nut M6 Flanged Nylon	1
17	E11-17	Adjustment Screw	2

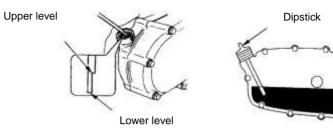
Fly Wheel



SL-No	KK-No	KK-Name	Qty
1	E12-01	Woodruft key	1
2	E12-02	Fly Wheel Fan	1
3	E12-03	Starter Sleeve	1
4	E12-04	Ignition Coil Assy	1
5	E12-05	Spark Plug Cap	1
6	E12-06	Stop lead	1
7	E12-07	Fly Wheel Assy	1

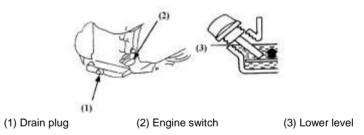


Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203



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.



B. 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.

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 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

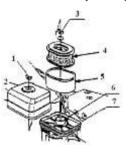
(2) Fill in hole

(3) Red line level

C. 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



- Butterfly nut
- Air cleaner cover
- B) Butterfly nut
- 4) Paper element
- Foam element
- Seal washer
- 7) Silencer plate

! WARNING:

Do not run the engine without air cleaner.

! DANGER

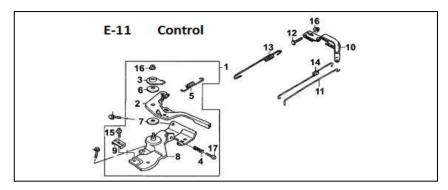
Using gasoline or flammable solvent to clean the filter element can cause a fire or explosion.

! CAUTION:



Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

Control



SL-No	KK-No	KK-Name	Qty
1	E11-01	Speed Adjustment Base Ass.	1
2	E11-02	N/A	1
3	E11-03	N/A	1
4	E11-04	Adjustment Spring	1
5	E11-05	Throttle spring	1
6	E11-06	N/A	1
7	E11-07	N/A	2
8	E11-08	N/A	1
9	E11-09	N/A	1
10	E11-10	Speed Adjustment arm	1
11	E11-11	Pulling Rod	1
12	E11-12	Quadrate bolt M6x21	1
13	E11-13	Return Spring	1

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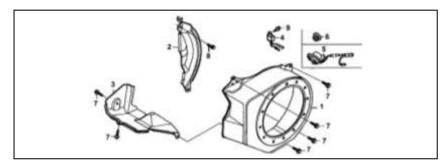
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SL-No	KK-No	KK-Name	Qty
9	E9-09	Pivot Bolt	1
10	E9-10	Starter spring	1
11	E9-11	Friction Spring 16x1	1
12	E9-12	Bolt M6x12 Flanged Hex	3

Fan Cover



SL-No	KK-No	KK-Name	Qty
1	E10-01	Fan cover	1
2	E10-02	Side Plate	1
3	E10-03	Wind guide	1
4	E10-04	Current Amplifier	1
5	E10-05	Engine switch	1
6	E10-06	N/A	1
7	E10-07	Bolt M6x12 Flanged Hex	6
8	E10-08	Bolt M6 x 20 Flanged Hex	1

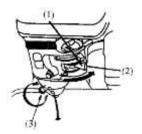


Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

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



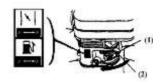
(1) Fuel Valve

(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

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Electrical Starting:

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

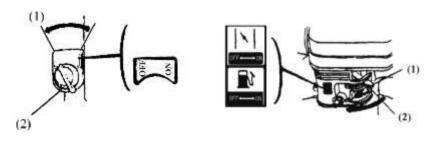


ENGINE SWITCH

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:

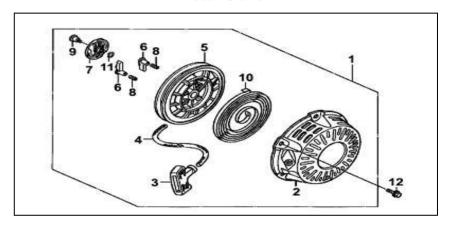
- Gasoline is extremely flammable and explosive under certain conditions.
- Refuel in well-ventilated places with the engine stopped. Do not smoke or allow flames or sparks near the places where the engine is refueled or gasoline is stored.
- Do not add fuel over the shoulder of strainer. After fueling, 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.



Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

SL-No	KK-No	KK-Name	Qty
26	E8-26	Measure hole Assy idle speed	1
27	E8-27	N/A	1
28	E8-28	N/A	1

Recoil Starter



SL-No	KK-No	KK-Name	Qty
1	E9-01	Recoil Starter Assy	1
2	E9-02	Starter cover	1
3	E9-03	Pulling handle	1
4	E9-04	Rope	1
5	E9-05	Roller/Rope Reel	1
6	E9-06	Ratchet	2
7	E9-07	Ratchet guide	1
8	E9-08	Ratchet Spring	2



SL-No	KK-No	KK-Name	Qty
4	E8-04	Fuel cup	1
5	E8-05	Adjustment screw Idle speed	1
6	E8-06	Screw(Fuel Cup)	1
7	E8-07	Tighten bolt (Fuel cup)	1
8	E8-08	Chock Valve Assy	1
9	E8-09	Carburetor Assy	1
10	E8-10	Adjustment Screw Assy (mixture ratio)	1
11	E8-11	Main Nozzle	1
12	E8-12	O-ring 21x2(Sediment cup)	1
13	E8-13	Block, Carburetor/Insulator	1
14	E8-14	Gasket, inlet port	1
15	E8-15	Steel gasket	1
16	E8-16	Gasket carburetor	1
17	E8-17	Hand grip chock valve assy	1
18	E8-18	Handle Bar Fuel on/off	1
19	E8-19	Upper cover(Fuel on/off)	1
20	E8-20	Spring Washer-(Fuel on/off)	1
21	E8-21	Fuel Valve	1
22	E8-22	Sediment cup	1
23	E8-23	Screw M3x7	2
24	E8-24	N/A	1
25	E8-25	Main jet	1



Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

 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:

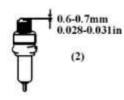
Stop the engine before doing any maintenance work. If the engine must be operated, provide adequate ventilation. Breathing in exhaust can cause loss of consciousness and even lead to death.

Everyday Maintenance:

- 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
- 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.



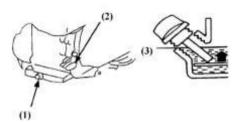




(1) Dismantle Spark Plug

(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 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

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:

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

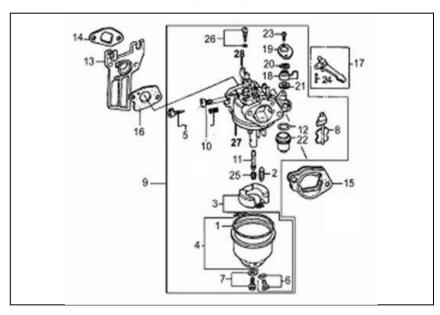
Storage Time	Recommended Service Procedure To Prevent Hard Starting
Less than 1 month	No preparation required
1 to 2 months	Fill with fresh gasoline and add gasoline conditioner



Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

SL-No	KK-No	KK-Name	Qty
14	E7-14	Cam Shaft Assy	1
15	E7-15	N/A	1
16	E7-16	N/A	1
17	E7-17	Inlet valve oil seal	1

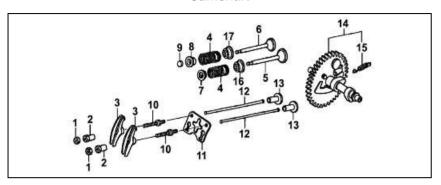
Carburetor



SL-No	KK-No	KK-Name	Qty
1	E8-01	Rubber seal (Fuel cup)	1
2	E8-02	Needle Valve	1
3	E8-03	Fuel Floater	1



Camshaft



SL-No	KK-No	KK-Name	Qty
	E7-1,2,3,10	Rocker Assy	1
1	E7-01	Buy Rocker Assy	
2	E7-02	Buy Rocker Assy	
3	E7-03	Buy Rocker Assy	
4	E7-04	Valve Spring	2
5	E7-05	Intake Valve	1
6	E7-06	Exhaust Valve	1
7	E7-07	Spring seat Intake Valve	1
8	E7-08	Spring Seat Exhaust Valve	1
9	E7-09	Cap Exhaust Valve	1
10	E7-10	Buy Rocker Assy	2
11	E7-11	Pusher guide	1
12	E7-12	Pusher	2
13	E7-13	Tappet	2



Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

2 months to 1 year

- · Fill with fresh gasoline and add gasoline conditioner
- Drain the carburetor float bowl
- Drain the fuel sediment cup

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.

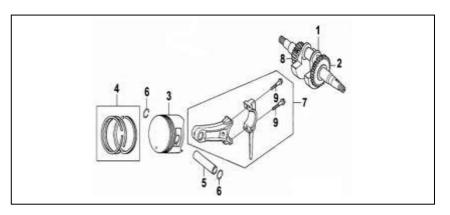
TECHNICAL SPECIFICATIONS

Model	KK-PE4-163	KK-PE4-203
Engine Type	OHV,Single-cylinder,4-s	stroke,forced air cooling
Fuel tank capacity	3.0	6L
Engine oil capacity	0.	6L
Displacement	163cc	196cc
Data dilia andi ada anno	2.3kW	3kW
Rated theoretical power	At 360	00rpm
Max. torque	10N.m/2500rpm	11N.m/2500rpm
Specific fuel consumption	≤ 450	g/kWh
Lubricant oil consumption	≤ 0.01 ((g/kWh)
Ignition system	Transisto	r magneto
Starting system	Recoil start or Elec	etric start(Optional)
N.W./G.W	15 /	17kg
Dimension(LxWxH)	400×375×380	
Bore × Stroke	68 × 45mm	68 × 54mm
Compression Ratio	8.5:1	



Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

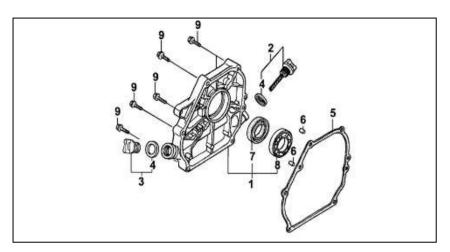
Crankshaft Piston



SL-No	KK-No	KK-Name	Qty
1	E6-01	Crankshaft assy	1
2	E6-02	Governor Gear	1
3	E6-03	Piston	1
4	E6-04	Piston Ring Assy	1
5	E6-05	Piston Pin	1
6	E6-06	Clip Piston Pin	2
7	E6-07	Connecting rod assy	1
8	E6-08	Timing Gear	1
9	E6-09	Bolt connecting rod M7x35	2



Crankcase Cover



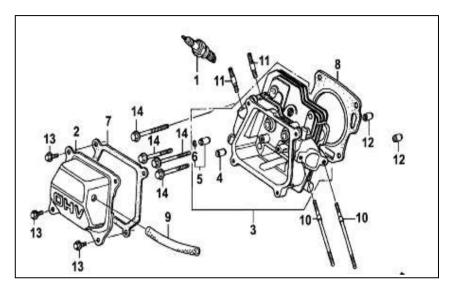
SL-No	KK-No	KK-Name	Qty
1	E5-01	Crankcase cover	1
2	E5-02	Oil Gauge	1
3	E5-03	Oil Plug assembly	1
4	E5-04	seal-oil guage	2
5	E5-05	Gasket crankcase	1
6	E5-06	Set pin 8X14	2
7	E5-07	Oil Seal 25x41.25x6	1
8	E5-08	Ball Bearing 6205	1
9	E5-09	Bolt M8 x 30	6



Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

ENGINE PARTS DIAGRAM & LIST- KK - PE4-163 / 203

Cylinder Head

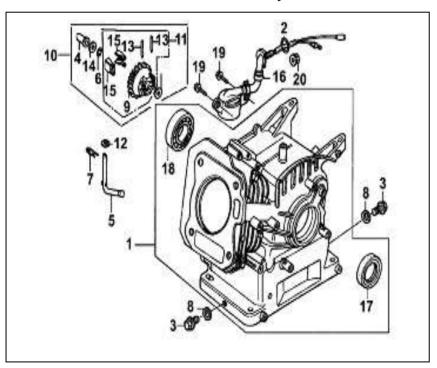


SL-No	KK-No	KK-Name	Qty
1	E3-01	Spark plug	1
2	E3-02	Cylinder head cover	1
3	E3-03	Cylinder head Assy	1
4	E3-04	In. valve guide	1
5	E3-05	Ex. valve guide	1
6	E3-06	Valve guide clip	1
7	E3-07	Gasket Cylinder head cover	1
8	E3-08	Gasket Cylinder head	1



SL-No	KK-No	KK-Name	Qty
9	E3-09	Air duck/Pipe	1
10	E3-10	Stud Intake Port M6 x 113	2
11	E3-11	Stud Exhaust Port M8 x 32	2
12	E3-12	Set pin 10x14	2
13	E3-13	Bolt M6x12	4
14	E3-14	Bolt M8 x 60,	4

Crankcase Assembly





Spark Ignition Internal Combustion Piston Engines for Agriculture KK-PE4-163 / 203

SL-No	KK-No	KK-Name	Qty
1	E4-01	Crankcase Body	1
2	E4-02	0-ring 14mm	1
3	E4-03	Drain bolt	2
4	E4-04	N/A	1
5	E4-05	Sway bar	1
6	E4-06	N/A	1
7	E4-07	Split Clip	1
8	E4-08	Washer Drain bolt	2
9	E4-09	N/A	1
10	E4-10	Centrifugal gear Parts	1
11	E4-11	N/A	1
12	E4-12	Plain washer 6mm	2
13	E4-13	N/A	2
14	E4-14	N/A	1
15	E4-15	N/A	2
16	E4-16	Oil sensor Assy	1
17	E4-17	Oil seal crankcase(25*41.25*6)	1
18	E4-18	Ball Bearing 6205	1
19	E4-19	Bolt M6 x 14	2
20	E4-20	Nut M10	1