

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.

Assignment / Transfer of warranty: The warranty cannot be assigned and shall not transfer if the product is resold by the first buyer. The above warranties are extended to the first end user (original purchaser), and no warranty is made, nor authorized to be made assignable on resale by the first end user.

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Receipt is required for availing warranty services

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.)

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2: +91.80.22178200

KisanKraft[®]

Warranty Certificate

(DEALER COPY)

Product	Horticulture Plant Pit Digger	KisanKraft Invoice Date		
Brand	KisanKraft	KisanKraft Invoice No.		
Model	☐ KK-PPDE-52 ☐ KK-PPDE-71			
WARRANTY PERIOD	6 MONTHS	FOR THE SPECIFIED PERIOD FROM THE DATE OF SALE OR DELIVERY WHICHEVER IS EARLIER.		
Dealer's Invoice Date		Dealer's Invoice No.		
Buyer's Info (N	ame, Address, Phone, etc.):	: Dealer's Stamp (Address, Phone, TIN, etc.)		
Buyer's Sign		Dealer's Sign		

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This warranty will only cover defects arising under normal usage.

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What is not covered: The *warranty shall become null and void* and neither KisanKraft Limited nor any of its manufacturers, nor its authorized dealers assumes any responsibility, if the failure was caused by the following:

- (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 on-site demonstration after purchase of any of the product

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Page 44 of 44



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Page 2 of 44 Page 43 of 44





Wide Range of Products for Every Need



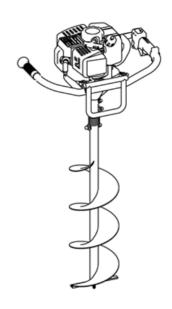
For more information give MISSED CALL: 07676065555



Many of our products have BIS: ISI certification.



User Manual



KisanKraft Limited

(Formerly known as KisanKraft Machine Tools Pvt. Ltd.) Sri Huchhanna Tower, #4,1st Main,7-A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore 560024, Karnataka, INDIA

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

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KisanKraft® Horticulture Plant Pit Digger



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)





KisanKraft®

Horticulture Plant Pit Digger KK-PPDE-52 / KK-PPDE-71

STORAGE

When releasing the engine from operation for more than 30 days, it must be serviced and stored as follows with care to prevent the starting trouble or malfunction due to degeneration of fuel.

- Drain the fuel from the fuel tank and start to run the engine till it is stopped due to use-up of fuel.
- 2. Wash the inside of fuel tank and fuel filter with white kerosene.

■ Use of fire is strictly prohibited

- Removing the ignition plug, inject a small quantity of new engine oil through the plughole. After idling slowly for few revolutions operating the recoil starter, install the ignition plug. Pull the recoil starter again and stop it at the position where it is felt heavy.
- 4. Clean the external surfaces with soft cloth and store it at a dry place free from fires.

NOTE: If the unit is left over without draining fuel, impurities in the fuel could clog the fuel passages such as the carburetor, fuel filter, or others, and cause engine troubles. Make sure to drain the fuel when storing the unit for a long period of time.

Sufficient care must be taken not to use fires at the vicinity when handling the fuel.

CONTENTS

BEFORE GETTING STARTED	8
SAFETY SYMBOLS	8
SAFETY INSTRUCTIONS	9
PARTS OVERVIEW	12
OPERATION	13
STARTING AND STOPPING THE ENGINE	15
COLD ENGINE START	15
WARM ENGINE START	15
HOT ENGINE START	16
TECHNICAL SPECIFICATIONS	17
MAINTENANCE AND STORAGE	17
SERVICE AND REPAIR	19
TROUBLESHOOTING	20
PARTS DIAGRAM & LIST- KK-PPD-E52	22
PARTS DIAGRAM & LIST- KK-PPD-E71	25
2 STROKE PETROL ENGINE- MANUAL	29



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2-STROKE PETROL ENGINE

Cleaning and service at respective sections

- Clean thoroughly around the muffler.
- Clean the cooling fins and the cooling air inlet.
- Inspect and retighten bolts and nuts.
- Inspect the fuel leakage.

INSPECTION AND SERVICE AT EVERY 50-HOUR

Cleaning and adjustment of ignition plug

After removing carbon accumulated on the electrodes and the insulator, adjust the clearance between the electrodes at 0.6 ~ 0.7 mm

When mounting the plug cap, push it in securely



Cleaning of fuel filter

Using a piece of wire, or the likes, pull out the fuel filter and wash with clean white kerosene. When it is fouled heavily, replace the filter and also wash the tank



Carbon removal

Remove carbon from the muffler in-/outlet, cylinder and piston.

This work requires engine servicing skill and some tools. Consult the dealer or nearest service center.

A CAUTIONS DURING INSPECTION

- Disconnect the ignition plug wires before inspection or adjustment to prevent unexpected start of engine.
- Do not touch the engine immediately after operation to prevent burn.
- Use of fire is strictly prohibited when handling the fuel (gasoline).
- Make sure to clean spilled fuel sufficiently before using the engine.
- Do not wash the engine with water.
- Do not change the setting revolution speed carelessly. (Consult your dealer when changing the revolution speed.)

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Page 6 of 44 Page 39 of 44



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INSPECTION AND SERVICE

Table of regular inspections

able of regular inspections				
Time	Before Each Operation	At Every 50- hours	At Every 100- hours	2 Years
Inspection and retightening of bolts, nuts	~			
Inspection of fuel leakage	√			
Inspection, cleaning of air cleaner	✓			
Cleaning at cooling air inlet, cooling fin and around muffler	✓			
Inspection, cleaning of ignition plug		✓		
Inspection, cleaning of fuel filter		✓		
Removal of carbon from muffler, cylinder		✓		
Cleaning of spark arrestor		✓		
Replacement of ignition plug		·	✓	
Replacement of fuel piping (fuel pipe and grommet)				√

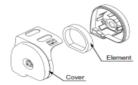
INSPECTION AND SERVICE BEFORE EACH OPERATION

Cleaning of air cleaner

Wash the element with white kerosene and then immerse it in engine oil. Squeeze it tightly with single hand.



Use of fire is strictly prohibited



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BEFORE GETTING STARTED

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

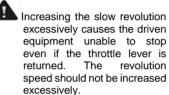
SAFETY SYMBOLS



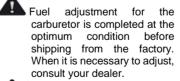
ADJUSTING THE CARBURETOR

Engine revolution speed is adjusted at the optimum condition before shipping from the factory. It should be adjusted only when it fails to operate properly. (Consult your dealer when adjustment is necessary.)

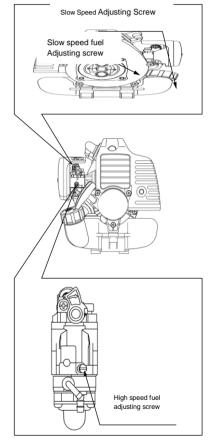
- Use the slow speed adjusting screw to adjust the slow speed revolutions.
 - Right turns: Increase the revolution speed.
 - Left turns: Slow down the revolution speed.



- In case with the slow speed fuel adjusting screw Normal position is where it is returned by one turn from the fully closed position (right turn).
 - Right turns: Increase the thickness of fuel.
 - Left turns: Decrease the thickness of fuel.
- 3. In case with the high speed fuel adjustment screw
 - Right turns: Decrease the thickness of fuel.
 - Left turns: Increase the thickness of fuel.



Do not decrease the thickness of fuel too much. (It could result in the seizure trouble of engine.)



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Page 8 of 44



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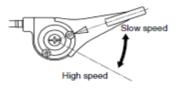
Horticulture Plant Pit Digger KK-PPDE-52 / KK-PPDE-71

- Place the engine at a horizontal position when the driven equipment is not used at the rest time, or others, in summer season. (If the tank is tilted as much as the inside of fuel cap is
- submerged in the fuel, the fuel may leak.)
 Do not touch the engine body, especially the muffler, during or immediately after stopping the operation. (There is risk of burn.)



PRECAUTIONS DURING OPERATION

 After starting the engine, set the throttle lever at the slow speed position and warm up the engine for approx. 2~3 minute. As the engine worms up, the engine will be accelerated smoothly.



- Do not attempt to raise the engine speed abruptly immediately after the start because the lubrication oil may not be distributed yet all over the engine.
- If the throttle lever is turned to the fully opened position, the revolution speed
 picks up to a considerably higher level, which could not only shorten the life of
 engine but also cause trouble. It should be avoided to race the engine at high
 speed under no load condition or raise the speed unnecessarily.
- Before starting operation, make sure to inspect the engine in accordance with the "Inspection before starting the engine".
- Do not operate the engine at the indoor or a place with poor ventilation. (Exhaust gas contains odorless and harmful carbon monoxide.)
- Do not insert in or approach hands or foot at the moving or rotating sections.
- Stop the engine immediately if it has been discovered any leakage of fuel or gas from the carburetor, muffler, fuel tank, crankcase, cylinder or mating face at respective sections. (Contact a dealer or service center for repair.)
- Do not change the setting revolution speed of engine unnecessarily.
- Be careful not to touch highly heated muffler or sections on the engine to avoid possible risk of burn.
- Do not operate the engine while withered grasses, leaves or other inflammable substances are sticking in or around the muffler cover.
- Do not touch the ignition plug cap or high-voltage cord during operation. (There
 is risk of electric shock or physical injury.)
- Do not operate the engine with the muffler or air cleaner cover removed

SAFETY INSTRUCTIONS

Accurate assembly, safe and effective use of the auger is the owner's responsibility.

- Read and follow all the safety instructions.
- Operate and maintain the auger according to instructions and schedule included in this operation manual.
- Ensure that anyone who uses the auger is familiar with all the controls and safety precautions.

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

NOTE: General information is given throughout the manual that may help the operator in the operation or service of the machine.

CAUTION	It indicates you or your equipment can be hurt if the safety instructions are not followed.
IMPORTANT	It indicates helpful information for proper assembly, operation, or maintenance of your equipment.
WARNING	Engine exhaust from this product contains chemicals known to cause cancer, birth defects, or other reproductive harm.

- Do not carry the auger power head between the holes with the engine running.
- The auger should not rotate when the engine is idling. If it does rotate, contact dealer for instructions.
- Always keep your hands, feet, hair and loose clothing away from any moving parts of the engine and auger.
- Do not allow children to operate this power auger. Do not allow adults to operate the auger without proper instruction.
- Do not operate any power equipment under the influence of alcohol or drugs.
- Keep all screws, nuts and bolts tight.
- The engine should be turned off and must be cooled, also spark plug wire must be removed from spark plug before any repairs are attempted.
- Temperature of muffler and nearby areas may be hot. Avoid these areas.
- Never run an engine indoors or in an enclosed area. Engine exhaust contains carbon monoxide, an odourless, deadly gas.
- If the earth auger will not turn in a hole, turn engine off and allow to cool before attempting to remove it manually.
- Do not let the person who do not fully understands the manual thoroughly, operate the auger.

Page 9 of 44

• When operating the auger make sure to keep bystanders 15m away.

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Page 36 of 44





2-STROKE PETROL ENGINE



WARNING--Carbon Monoxide Poisoning:

All engines contain carbon monoxide in their exhaust. Carbon monoxide is a deadly, colourless, tasteless, odourless gas which may be present even if you do not smell or see any engine exhaust. Levels of carbon monoxide, which can be deadly, can be present for days in an enclosed area if it has poor ventilation. Any level of carbon monoxide, if inhaled, can cause headaches, drowsiness, nausea, dizziness, and eventually death. If you experience any of these symptoms, seek fresh air and medical attention immediately.

Preventing Carbon Monoxide Poisoning

- Never run an engine indoors.
- Never try to ventilate engine exhaust indoors. Carbon monoxide can reach dangerous levels very quickly.
- Never run an engine in places where exhaust fumes may be pulled into a building.
- Never run an engine in a poorly ventilated area where the exhaust fumes may be trapped and not easily taken away. (Examples include: in a large hole or areas where hills surround your working area.)
- Never run an engine in an enclosed or partially enclosed area. (Examples
 include: buildings that are enclosed on one or more sides, under tents, car ports
 or basements.)
- Always run the engine with the exhaust and muffler pointed in the direction away from the operator.
- Never point the exhaust muffler towards anyone. People should always be far away from the operation of the engine and its attachments

Petrol Fires or handling Fuel Safely:

Fuel and fuel vapors are highly flammable. Never use fuel where a spark or flame may be present. Never use fuel where a potential source of ignition could occur. (Examples include: hot water or room heaters, clothes dryer, electric motors, etc.)

Keep flames and sparks away from the engine and fuel to prevent fires. Fuel fires spread very quickly and are highly explosive

Prevention of Petrol Fires:

- Never fill your fuel tank with fuel indoors. (Examples include: basement, garage, barn, shed, house, porch, etc.)
- Always fill fuel tank outside in a well-ventilated area.
- Never remove the fuel cap or add fuel with the engine running. Stop the engine and allow to cool before filling.
- Never drain fuel from engine in an enclosed area.
- Always wipe up excess (spilled) fuel from engine before starting. Clean up spilled fuel immediately.
- Allow spilled fuel to dry, after wiping and before starting.
- Allow fuel fumes/vapours to escape from the area before starting the engine.
- Test the fuel cap for proper installation before starting and using the engine.

up operation for 2 to 3 minutes in this condition. Observing the condition of the engine, move the throttle lever to a desired engine speed.

START

A CAUTION

- Before starting the engine, confirm that the area of radius 15 m around the engine is completely evacuated.
- Do not operate the engine when any flammable material (gasoline, volatile chemicals, or others) is present around it.
- Driven equipment may start simultaneously with the start of engine. Carefully read the instruction manual of the equipment and start the engine carefully.
- When a class FC oil is used, a larger resistance may be felt when pulling the
 recoil starter grip under low temperature condition or at the initial operation at
 the next season. This is related to the characteristic of the oil and there is no
 problem on the engine. Once started, it will return to the normal condition

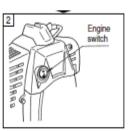
Concerning New Start System

It can start even if it is pulled slower than normal.

- If the rope is pulled (vigorously) till it will not come out any more, it could damage the recoil mechanism.
- Do not disassemble the recoil.
 It is dangerous to disassemble the inside of recoil. (Consult your dealer when it is necessary to replace related parts.)
- If the decompression slot of cylinder is clogged, the engine may start slower than normal. Clean the slot to restore the normal condition.

STOP

- Set the throttle lever at the slow speed position.
- Slow speed
- Turn the engine switch to the "OFF" position. (Switch position may vary depending on the specifications. Refer to the instruction manual of driven equipment.)
 - In chase of a push button type switch, keep pressing the push button till the engine stops completely.
 - Replenish the fuel before using up completely. It will make easier at the next starting.
 - When there is no subsequent work, drain the fuel from the fuel tank and restart the engine to use up the fuel remaining in the carburetor.



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Page 10 of 44

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Page 35 of 44



START (STARTER LEVER TYPE UNIT)

- 1. Turn the engine switch to the "ON" side.
- Set the throttle lever at the slowest speed position.
- Push the priming button repeatedly with finger till it hits the top. (More than 10 times)

Pressing the priming button is necessary to prime the fuel to facilitate the start-up. Since any excess amount of primed fuel returns to the tank, there is no problem of over-priming. Prime the fuel rather more than sufficiently to avoid starting trouble.

Turn down the starter lever of carburetor to set it at the start position.

It is not necessary to operate the starter lever when the engine is warmed up (For about 15 minutes after stopping the engine.)

(To be left in the operating position) Depending on specifications, the starter lever may be provided at the throttle wire side.

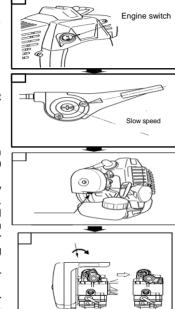
 While holding down the engine firmly, grasp the recoil starter grip and pull vigorously

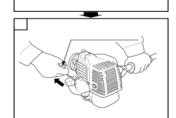
ACAUTION:

- a) When the engine stops on the way after starting, or
- b) When the engine fails to start after trying the recoil operation for 7 to 8 times.

Return the starter lever to the operating position and try the recoil operation.

6. If you move the throttle lever to the high-speed side a little after the engine has started, the starter lever returns to the operating position. Continue the warm-







Horticulture Plant Pit Digger KK-PPDE-52 / KK-PPDE-71

- Always run the engine with fuel cap properly installed on the engine and the petrol cap vent screw unscrewed.
- Replace fuel cap that allows the petrol to spill or leak.
- Never smoke while refilling engine fuel tank.
- Prevent fire and explosion caused by the static electric discharge. Use only approved, non-metal, portable fuel containers
- Do not store the engine with fuel in fuel tank indoors. Fuel and fuel vapors are highly explosive.
- When storing, screw down petrol cap vent screw tightly.
- Never pour fuel from the engine fuel tank.
- Never siphon fuel by mouth to drain the fuel tank.
- Always have an adult fill the fuel tank.
- Never allow an adult or anyone under the influence of drugs or alcohol to fill the engine.
- Never allow children to fill the engine

BURNS AND FIRES:

The muffler, muffler guard and other parts of the engine become extremely hot during the operation of the engine. These parts remain extremely hot even after the engine has stopped.

Prevention of Burns and Fires

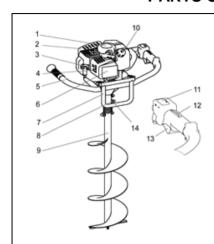
- Never remove the muffler guard from the engine.
- Never touch the muffler guard because it is extremely hot and will cause severe burns.
- Never touch parts of the engine that become hot after the operation.
- Always keep materials and debris away from the muffler guard and other hot parts of the engine to avoid fires.

CAUTION: Hot Gases Are A Normal By-Product Of A Functioning Catalytic Converter. Follow All Safety Instructions to Prevent Burns and Fires

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Page 11 of 44

PARTS OVERVIEW



- Recoil starter
- 2. Muffler
- 3. Spark plug
- 4. Choke lever
- 5. Handle
- 6. Air filter
- 7. Protect support (Optional)
- 8. Bolt
- 9. Auger
- 10. Fuel tank cap
- 11. Engine switch
- 12. Throttle catch
- 13. Throttle control
- 14. Nut-M8

Auger bits are available separately with different diameter as given below:

Plantation Pit Digger	Auger Bit Model	Corresponding Diameter (in centimeter)
KK-PPDE-52	KK-PPDA-06 KK-PPDA-08 KK-PPDA-10	15 20 25
KK-PPDE-71	KK-PPDA-06 KK-PPDA-08 KK-PPDA-10 KK-PPDA-12	15 20 25 30

METHODS OF STARTING & STOPPING THE ENGINE

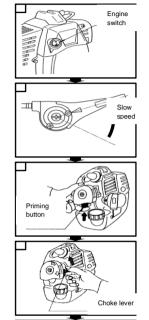
START (CHOKE TYPE UNIT):

- 1. Turn the engine switch to the "ON" side.
- 2. Set the throttle lever at the slow speed position.
- 3. Push the priming button repeatedly with finger till it hits the top. (More than 10 times) Pressing the priming button is necessary to prime the fuel to facilitate the start-up. Since any excess amount of primed fuel returns to the tank, there is no problem of over-priming. Prime the fuel rather more than sufficiently to avoid starting trouble.
- 4. Turn the choke lever to the fully closed position

(at the Mark). When sufficient fuel is retained and the engine is warm, set the choke lever at the fully opened

position (at the mark)

5. While holding down the engine firmly, grasp the recoil starter grip and pull vigorously





Recoil starter grip

When the engine has started, return the choke lever gradually to the fully opened

position (at the Mark).

If only exploding sounds are heard, but it does not start, return the choke lever to the fully closed position and pull the starter grip vigorously once again.



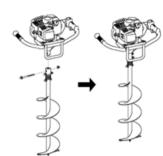


Horticulture Plant Pit Digger KK-PPDE-52 / KK-PPDE-71

OPERATION

Assembly before use

Set the auger on the output shaft, then insert the bolt and then lock it with the nut.



Preparing Engine for Starting

Petrol and Oil: To operate the engine, we recommend using 2 cycle oil to ensure that the engine operates correctly throughout the life of the engine. Use unleaded regular petrol only.

Mixture: Run earth auger with a 25:1 ratio.

Mixing Fuel and Filling Petrol Tank

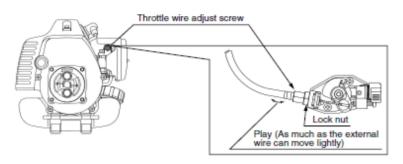
Mixing Fuel

- 1. Fuel must be mixed in a container outside in a well-ventilated area.
- 2. Fill certified fuel container 1/4 full of recommended fuel.
- 3. Add recommended amount of 2 cycle oil.
- 4. Screw container cap on straight and tight.
- 5. Shake the container to mix fuel and oil.
- 6. Unscrew fuel cap slowly to vent, add the remainder of fuel requirements.
- Wipe away any spilled fuel or oil and allow to evaporate before moving or transporting.

CAUTION:

Do not alter/modify the engine or auger:

- Never alter or modify the engine from the factory. Serious injury or death may occur if the engine is modified or altered.
- When working on or replacing parts for the engine or auger you must always disconnect spark plug wire from the spark plug and keep it away from the spark plug.
- Always wear hearing protection while operation the engine.
- Please do not start your earth auger until you have read the previous section
 of this manual. If you have read these, follow the steps below to start your earth
 auger.
- Never store engine with petrol in the tank indoors. Fuel and fuel vapors are highly flammable.



INSPECTION OF RESPECTIVE SECTIONS:

Make sure to inspect these sections before operating the engine.

Inspection of fuel

- Is sufficient quantity of oil reserved?
- Is not the fuel degenerated?
- Use the proper fuel referring to the "Fuel" section.

CAUTION

- Sufficient care must be taken on the fire not only when replenishing but also handling fuel. It could cause fire or explosion.
- Securely close the oil tank cap. Fuel may leak if the cap is tightened aslant. It
 will never leak if the cap is tightened properly.
 (Excluding: TL tank cap breather type)

Inspection of clogging

- Check the cooling fins, around the muffler and cooling air inlet for trash or withered grasses trapped.
- · Remove them if necessary

Inspection of air cleaner

- Is not fouled the air cleaner element?
- When the element is fouled or it is not impregnated with oil, inspect and service it in accordance with "Inspection and servicing before each operation"

Inspection of screws and nuts

- Check respective sections for loose or missing screws or nuts.
- · Service them if necessary.

Inspection of fuel pipes

 Check for cracks or fissures on the fuel pipe and grommet, disconnection or fuel leakage from joints on the fuel tank and carburetor.

CAUTION

Cracks, fissures or disconnection from joints could cause fire or explosion by leaked fuel. Service or replace damaged fuel pipe and grommet.

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Page 32 of 44

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Page 13 of 44

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2-STROKE PETROL ENGINE

- Never mix fuel and oil directly in the engine petrol tank. Use only approved nonmetal, portable fuel containers
- An adult must always handle and fill the engine with fuel.
- Always handle fuel in a well-ventilated area, outdoors, away from flames or sparks.

IMPORTANT: This Engine Uses a Petrol/Oil Mixture. Do Not Run On Petrol
Alone, As It May Cause Damage to the Engine

Filling Fuel Tank:

- 1. Shut-off the engine and allow it to cool completely before refilling the fuel tank.
- Move to a well-ventilated area, outdoors, away from flames and sparks, before refilling.
- 3. Clean debris from the area around the fuel cap.
- 4. Loosen fuel cap slowly. Place the cap on a clean, dry surface.
- 5. Carefully add fuel without spilling.
- 6. Do not fill the fuel tank completely full, allow space for the fuel to expand.
- Immediately replace fuel cap and tighten. Wipe off spilled fuel and allow it to dry before starting the engine.

NORMAL OPERATION

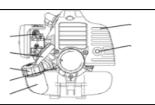
- The clutch will transfer maximum power only after two hours of normal operation. During this break-in period clutch slippage may occur. The clutch should be kept free of oil or other moisture for efficient operation.
- Drill holes without placing excessive body weight on the unit. The auger operates most efficiently with a shaving action caused by the weight of the unit itself.
- 3. Never run an engine indoors. Exhaust fumes are deadly.
- 4. Do not use an earth auger in the ice.
- To attach auger to the power head, align holes at top of auger shaft with the output shaft hole. Insert 3/8-16 x 1-1/2" bolt and secure bolt with provided 3/8" bi-way lock nut using a wrench

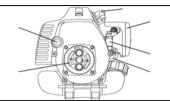
NOTE: The ends of the bolt should be even with the auger collar. Bolt head and thread end should never go beyond earth collar

Using the Screw Type Manual Venting Fuel Cap:

- 1. Your power earth auger is equipped with a screw type manual venting fuel cap.
- Before starting the engine, turn the screw on the top of the fuel cap all the way open (counterclockwise) to its venting position. To ensure that the fuel will not spill during use, check that the fuel cap is screwed on tightly and the fuel cap screw is in the venting position.
- After using the power earth auger and before putting away or transporting it in a vehicle, screw the fuel cap screw on (clockwise) tightly. This will prevent fuel from leaking during storage. (The fuel cap will not leak fuel during storage if the fuel cap is tight and the screw at the top is tight.)

COMPONENTS OVERVIEW





- Recoil starter grip
- 2. Starter lever
- 3. Cooling air inlet
- 4. Fuel tank cap
- 5. Fuel tank
- 6. Muffler
- Exhaust outlet (Types vary depending on the specifications.)
- 8. Engine switch (Types vary depending on the specifications.)
- 9. Clutch
- 10. Ignition plug cap
- 11. Air cleaner
- 12. Carburetor
- 13. Priming button

INSPECTION BEFORE OPERATING THE ENGINE

FUEL: Use mixed oil of ordinary regular gasoline for vehicle and special 2-cycle engine oil with the proportion as shown by the following table.

Mixing ratio (Volumetric ratio):

Gasoline: 2-cycle engine oil
Casonine . 2 Cycle chighle on
40.1
40. 1

- Do not use degenerated oil (with sour smell).
- (It could cause engine trouble such as the starting error, insufficient output, etc.)
- Make sure to clean spilled fuel. It could foul clothes or cause fire.
- Do not use 4-cycle engine oil. (It could cause fouled plug, bound piston ring, clogged muffler, or other problem.)
- Take care while handling gasoline. (As there is a risk of explosion.)

ADJUSTMENT OF THROTTLE WIRE:

Adjust the play on the throttle wire to $0.5 \sim 1.0$ mm.

LARGER PLAY

- It could cause the starting trouble.
- Revolution speed could rise unexpectedly when the external wire of throttle wire comes off from the position.

NO PLAY

Driven equipment may fail to stop even if the throttle lever is returned.

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 Page 14 of 44

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- Do not adjust the setting engine speed unnecessarily.
- Do not check sparks while the ignition plug is removed.
- Do not operate the engine with the muffler or air cleaner cover removed. (Inspect particularly the muffler at regular intervals for loose mounting screws, breakage or leakage, and repair or replace it if any abnormality is observed.)
- Do not operate the engine when grass, leaves or inflammable substances are sticking in or around the muffler.
- Do not touch parts of muffler or engine at high temperatures. (There is risk of
- Do not touch the ignition plug or high-voltage cord during operation. (There is risk of electric shock or physical injury.)
- Make sure to stop the engine whenever the work is interrupted or moving the engine to another place.
- Do not operate the engine alone. (It must be connected to the driven equipment when it is operated).
- Check frequently the parts used on the fuel line for cracks or leakage, and replace them if necessary.
- Remove dirt, grass or other trash from the cooling fins and the cooling air inlet. (Make sure to stop the engine and the driven equipment before the cleaning.)
- Make sure to use always new gasoline. (Old gasoline may cause sticky substance adhering at the inside of carburetor causing trouble in operation.)
- Before starting the engine, confirm that the area of radius 15 m around it is evacuated and no tank filled with fuel, or others are not left over.
- Use only genuine parts supplied from the manufacturer. Use of parts other than the genuine parts could cause engine trouble or premature abrasion.

Note: Important safety items quoted in this manual do not necessarily cover all situations or conditions that could occur. Although sufficient care has been taken to assure the safety of the engine, operators or service personnel must observe necessary precautions to operate it safely and protect themselves from possible dangers.

NOTE: When storing unit in an upright position for pro-longed periods of time in warm weather, vent fuel cap to prevent fuel from leaking from the carburetor.

STARTING AND STOPPING THE ENGINE

COLD ENGINE START: Starting the engine for the first time or after the engine has cooled off or after running out of fuel.

- 1. Open fuel cap vent screw all the way (counterclockwise).
- Move choke lever to RUN or OFF position.
 - NOTE: Choke must be in the RUN or OFF position when pushing or using the primer bulb
- 3. Prime unit until primer hose is filled with fuel.
 - NOTE: When using the primer bulb, allow the bulb to return completely to its original position between pushes
- 4. Move choke lever to **CHOKE or ON** position.
 - NOTE: CHOKE position is defined by moving the choke lever as far to the ON position as possible.
- Push rocker switch to the **ON** position.
- Squeeze throttle controls wide open with right hand. Grasp starter handle with left hand and pull out slowly, until it pulls slightly harder. Without letting the starter handle retracts, pull rope with a rapid full arm stroke. Let it return to its original position very slowly until unit fires or runs. Repeat this step every time the starter rope is pulled.
 - NOTE: If engine fails to start after 5-6 pulls, push primer 1 time and pull the starter rope again.
- 7. After the engine starts running, move choke lever to HALF CHOKE position until the unit runs smoothly
 - NOTE: HALF CHOKE is defined when the choke lever is between CHOKE and RUN or ON and OFF position.
- Move choke lever to RUN or OFF position and move the throttle to desired speed.
 - NOTE: Run at full throttle when possible. Do not let unit idle for extended periods of time.
- 9. To stop the engine, push rocker switch to **OFF** position

WARM ENGINE START:

- 1. Open fuel cap vent screw all the way (counterclockwise).
- 2. Move choke lever to **CHOKE or ON** position
 - NOTE: CHOKE position is defined by moving the choke lever as far to the ON position as possible.
- 3. Continue with Step 5 of Cold Engine Start.

CAUTION:

- If auger is mounted to engine, all safety guards must be securely on to avoid any serious injury.
- Starter rope can cause an unanticipated jerk towards the engine. Please follow instructions to avoid injury.

Page 15 of 44

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Page 30 of 44



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2-STROKE PETROL ENGINE

- Never leave the engine running unattended. Turn it off after every use
- Never carry power head and auger between holes while engine is running.

WARNING:

- Make sure the unit is in a stable position before pulling the starter handle.
- When the unit starts to fire or run, release the throttle control momentarily with your right hand and return your left hand to the handlebar position to maintain control and stability of the unit with both hands.

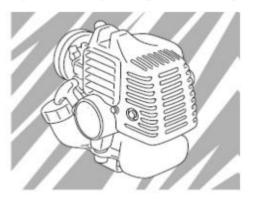
HOT ENGINE START:

- 1. Open fuel cap vent screw all the way (counterclockwise).
- 2. Continue with Step 5 of Cold Engine Starting.
- 3. If engine does not fire, refer to Step 2 of Warm Engine Starting.

DO NOT attempt to start the engine in the following ways:

- DO NOT use starting fluid DO NOT spray flammable liquids or vapors into air cleaner, carburetor or spark plug chamber.
- DO NOT remove spark plug and pull on the starter rope. Flammable fuel can spray out & ignite from a spark from the spark plug.

2 STROKE PETROL ENGINE- MANUAL



BEFORE GETTING STARTED

This manual describes various cautions necessary to operate the engine properly. Before starting the engine, read the manual and understand the proper method of use. (Improper use of the engine could result in accident or injury.)

Use the engine after reading and understanding also the manual of equipment driven by the engine.

Keep the manual at a safe place where you can refer whenever needed.

SAFETY INSTRUCTIONS



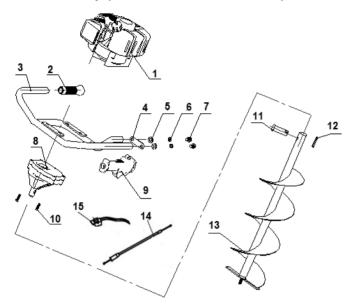
You have to observe the descriptions indicated with this mark because they contain very important information to assure the safety

- No person who does not understand the content of this manual should be allowed to operate the engine.
- Engine should not be operated indoors or in places with poor ventilation.
 (Exhaust gas contains odorless and harmful carbon monoxide.)
- Do not insert in or approach hands or foot near the moving or revolving sections.
- Do not store, spill or use gasoline at the vicinity of fire, stove, furnace or devices using the pilot flame or sparks like water heater or others. (There is risk of explosion.)
- Do not refill the fuel indoors or at a place not well ventilated.
- Do not smoke while filling the fuel.
- Do not remove the fuel tank cap or refill the fuel while the engine is still running or immediately after operation when the engine is still hot. (Wait for more than 2 minutes after terminating the operation before refilling the fuel.)
- Do not operate the engine when gasoline has spilled, smell of gasoline is felt as there is a risk of explosion.

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Page 16 of 44

Body (KK-PPDE-52 / KK-PPDE-71)



Part No	Part Name	Part No	Part Name
B-1	N/A	B-10	Bolt 1/4-20×19
B-2	Handle grip	B-11	Pin roll 10×40
B-3	Handle	B-11	Pin roll 10×50
B-4	Connection strap	B-12	Cotter PIN 2.5×30
B-5	Washer-12 plain	B-13	N/A
B-6	Washer-12 spring	B-13	N/A
B-7	Bolt M12×20	B-13	N/A
B-8	N/A	B-14	Throttle cable
B-9	Control handle	B-15	Switch on/ off

TECHNICAL SPECIFICATIONS

Model	KK-PPDE-52	KK-PPDE-71
Engine Type	Forced Air-cooled 2- Stroke	
Displacement	51.7cc	71cc
Max. Output	1.4kW	2.3kW
Fuel	Petrol And Oi	I Mixture(25:1)
Fuel Tank Capacity	0.8L	
Ignition System	C.D.I.	
Starting System	Recoil	
Gear Ratio	30:1	
Max. Engine Speed	8500 rpm	
Clutch Engine Speed	3700 rpm	
Idle Engine Speed	ed 2900 rpm	
Auger Speed	0-280 rpm	
Spark plug type /model	L7RTC/TORCH	

Note: Specifications are subject to change without prior notice.

MAINTENANCE AND STORAGE

AUGER MAINTENANCE

- The gear case has 4 oz. of grease installed at the factory. It is recommended that once a year the gear case be split and the grease level checked. Add grease only if level of grease is below top of the gears. DO NOT OVERFILL.
- 2. Ensure all the screws, nuts, and bolts are tight.
- During cold weather, store the unit in a cool environment. Transferring the unit from a warm to a cold place can cause the buildup of harmful condensation.



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4. If blade performance decreases, turn unit off and disconnect spark plug wire. Carefully inspect cutting edge of blade for any signs of wear. If blades show any of these signs, they need to be sharpened or replaced.

ENGINE MAINTENANCE

Cooling Fins: Cooling fins, air inlets and linkages must be free from any debris before each use.

Air Filter: Never run engine without installing the air cleaner properly. Added wear and engine failure may occur if air cleaner is not installed. Service air cleaner every 3 months or after 20 hours of operation. Clean filter daily in extremely dusty conditions.

Steps for Cleaning Air Filter:

- 1. Wash with warm water and mild soap until dirt and debris are removed. Press the filter when washing, do not twist.
- 2. Rinse in warm water until soap and dirt are removed.
- 3. Dry filter by wrapping in a clean cloth and pressing filter until it is dry.
- 4. Apply oil to the entire filter.
- Remove excess oil.
- 6. Attach the filter and air cleaner cover to the engine

CAUTION

TO PREVENT ACCIDENTAL STARTING AND AVOID INJURY:

- 1. Engine must be turned off and cool, and spark plug wire must be removed from spark plug before checking and adjusting engine or equipment.
- 2. Temperature of muffler and nearby areas may exceed 150°F (65°C), so try to
- 3. Check auger often for loose nuts and bolts. Keep these items tightened.
- 4. Never store engine with fuel in the tank, inside a building. Potential sparks may be present for ignition of fuel and fuel vapours.
- 5. Maintenance and repair on engine and auger must be done only by an adult.
- Engine must be shut-off, cooled, and spark plug wire removed before any repair or maintenance is done.

Spark Plug

- 1. Check spark plug after every 50 hours of operation.
- 2. Disconnect the spark plug cap, and clean any debris from around the spark
- 3. Remove spark plug and replace if any of the following occur; pitted electrodes, burnt electrodes, cracked porcelain, or deposits around electrodes.
- 4. After analysis, seat spark plug and tighten with spark plug wrench.
 - Reinstall original spark plug, tighten additional 1/2 turn.
 - Installing new spark plug, adjust spark plug gap to .030" and tighten additional 1/8 - 1/4 turn.

NOTE: Loose spark plug may overheat and damage the engine. Over tightened spark plug may damage threads in the cylinder head.

Part No	Part Name	Part No	Part Name
E-10	Clutch Bolt	E-47-4	Fuel pipe Grommet
E-11	Pin Locating Φ5×12.5	E-48	Fuel Tank Cap
E-12	Mount Ring	E-49	Cushion Rubber (Fuel Tank)
E-13	BOLT W/WASHER M5×28(Allen)	E-50	BOLT M5×18 (Hex Flanged)
E-14	IGNITION COIL	E-51	N/A
E-15	BOLT HEX SKT HD M4×20(Allen)	E-52	N/A
E-16	Washer 4 Plain	E-53	N/A
E-17	Insulator	G/B-54	BOLT HH 1/4"-20×19
E-18	Gasket Insulator	G/B-55	Gear Case Top
E-19	BOLT W/WASHER M5x32 (Star/Allen)	G/B-56	Gear Case Bottom
E-20	BOLT W/WASHER M5×22(Star/Allen)	G/B-57	Gasket Gear Case
E-21	Gasket Carburetor	G/B-58	Ball Bearing Double Lip R12-2RS
E-22	Carburetor	G/B-59	Ball Bearing R10
E-23	Air Filter inside cover	G/B-59- 1	BALL BEARING R10 3/8 INCH
E-24	BOLT W/ WASHER PPH M5×52(Star)	G/B-60	Gear 7T Pinion Threaded
E-25	Plate Reinforcement(Air filter)	G/B-61	Gear 44T
E-26	Air Filter Sponge	G/B-62	Gear 48T
E-27	Air Filter out side cover	G/B-63	Pinion 10T
E-28	Gasket Muffler	G/B-64	Snap Ring-19
E-29	Spacer Exhaust	G/B-65	Dowel Pin Steel
E-30	Muffler	G/B-66	Bolt (Allen) SKT HD 1/4"- 20×50
E-31	BOLT W/WASHER PPH M5×12(Allen)	G/B-67	Bolt (Allen) SKT HD 1/4"- 20×38
E-32	Washer 5 Plain	G/B-68	Clutch Drum
E-33	BOLT M5×65(Allen)	G/B-69	Shaft Out Put 7/8"

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Page 18 of 44



Part No	Part Name	Part No	Part Name
E-1-1	Cylinder	E-34	Cover Muffler
E-1-2	Gasket Cylinder	E-35	BOLT W/WASHER M5×12 (Hex)
E-1-3	Piston Ring	E-36	Starter reel
E-1-4	Piston	E-37	Gasket Starter
E-1-5	Piston Pin	E-38	Starter Assy
E-1-6	Circlip Piston Pin	E-38-1	Rope Lock
E-1-7	Needle Bearing Piston Pin	E-38-2	Starter Handle
E-1-8	Oil Seal (METAL) 15X26X6	E-38-3	Rope Starter
E-1-9	Crankcase (Small)	E-38-4	Starter Case
E-1-10	N/A	E-38-5	Recoil spring
E-1-11	Bearing 6202	E-38-6	Compression spring
E-1-12	Crankshaft	E-38-7	Rope Reel
E-1-13	Key (Crankshaft)	E-38-8	Ratchet Pin
E-1-14	Bearing 6202	E-38-9	Ratchet
E-1-15	Pin(Crankcase)	E-38-10	Screw Ratchet
E-1-16	Crankcase(Big)	E-39	BOLT W/WASHER M5×20 (Allen)
E-1-17	Oil Seal (METAL) 15X26X6	E-40	BOLT W/WASHER M5x25 (Allen)
E-1-18	Screw 5X38 (Allen)	E-41	Shroud, Engine
E-1-19	Screw 5X18(Allen)	E-42	Cover, Engine Shroud
E-2	Sparkplug	E-43	BOLT W/WASHER M5×16
E-3	Decompression Valve	E-44	Bracket Lower, Fuel Tank
E-4	N/A	E-45	Bracket upper, Fuel Tank
E-5	Flywheel	E-46	Fuel tank
E-6	Nut,M8 (Flanged)	E-47	FUEL LINE KIT ASSEMBLY
E-7	Washer-B	E-47-1	Petrol Filter
E-8	Clutch Shoe Assy	E-47-2	Fuel Pipe-Long
E-9	Washer-A	E-47-3	Fuel pipe-Short



Horticulture Plant Pit Digger KK-PPDE-52 / KK-PPDE-71

Carburetor

Never tamper with factory setting of the carburetor.

TRANSPORTING YOUR EARTH AUGER

- 1. Never transport the engine inside a closed space or vehicle. Fuel or fuel vapors may ignite causing serious injury or death.
- If fuel is present in the fuel tank, transport in an open vehicle in an upright position.
- If a closed vehicle has be used, remove fuel into an approved red fuel container.
 DO NOT siphon by mouth.
- 4. Run the engine to use up the fuel in the carburetor and fuel tank. Always run the engine in a well-ventilated area.
- 5. Wipe away any spilled fuel from the engine and earth auger. Allow it to dry.

LONG TERM STORAGE

If your earth auger will not be used for more than one month, prepare it for long term storage.

Steps for Long Term Storage:

- 1. Add fuel stabilizer according to manufacturer's instructions.
- Run the engine for 10-15 minutes to ensure that the stabilizer reaches the carburetor.
- Remove the remaining fuel from the fuel tank into an approved fuel container.
- Remove auger from power head and apply a thin layer of grease to the output shaft.
- 5. Store auger and power head (engine) in a vertical position.
- 6. Remove all debris from auger and power head (engine).

SERVICE AND REPAIR

SERVICE INFORMATION

We build quality and durability into the design of our products; but no amount of careful design by us, and careful maintenance by you, can guarantee a repair-free life for your auger. Most repairs will be minor, and easily fixed by observing the suggestions given in the troubleshooting guide in this manual.

The guide will help you pinpoint the causes of common problems and identify remedies. For more complicated repairs, you may want to rely on your dealer, an authorized mechanic or. (Contact your dealer for a list of authorized mechanics in your area.

We will always be glad to answer any questions you have, or help you find suitable assistance.

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Page 26 of 44



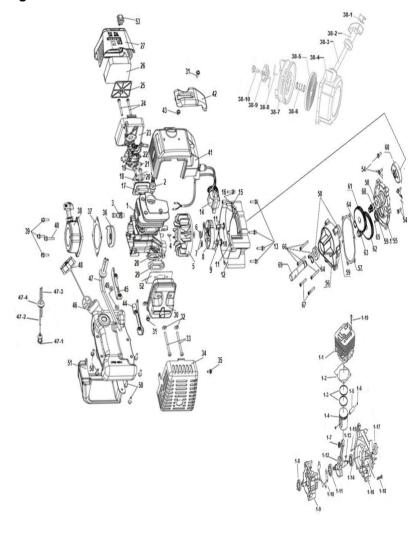


TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY / ACTION	
Engine does not start	Power switch is off	Flip switch to ON position.	
	Spark plug wire is disconnected	Connect spark plug wire to spark plug.	
	3. Engine is Out of fuel	3. Refuel the Engine.	
	Spark plug is wet, faulty or improperly gapped.	Clean, replace or adjust the gap of the spark plug.	
	Throttle control is not held wide open	5. Hold throttle control wide open when pulling the recoil handle	
	Fuel line hose is not positioned in the bottom of the fuel tank	Push fuel line down into fuel in the fuel tank	
Engine runs rough	Dirty air filter	Clean or replace the air filter	
Engine floods during operation	Choke partially engaged	2. Turn off choke	
	Carburetor out of adjustment	Call the service personnel	
	Stale fuel	Drain old fuel and fill with fresh fuel .Use fuel stabilizer at the end of season	
Engine is difficult to start	Spark plug wire is loose	Make sure spark wire is securely attached to spark plug	
	3. Dirty carburetor	Clean carburetor, use fuel stabilizer, new fuel can	
	Throttle control not held wide open	Prime unit 3 more times, then hold throttle wide open when pulling recoil handle	

PARTS DIAGRAM & LIST- KK-PPDE-71

Engine:





Part No	Part Name	Part No	Part Name
E-10	Screw M 5x20 (Hex)	G/B-45	Gear Case Bottom
E-11	Mount Ring	G/B-46	Gasket Gear Case
E-12	Bolt w/washer SKT HD M5×20	G/B-47	Ball Bearing Double Lip R12- 2RS
E-13	Gasket Insulator	G/B-48	Ball Bearing R10
E-14	Insulator	G/B-48- 1	BALL BEARING R10 3/8 INCH
E-15	Screw 5x28 (Allen)	G/B-49	Gear 7T Pinion Threaded
E-16	Gasket Carburetor	G/B-50	Gear 44T
E-17	Carburetor	G/B-51	Gear 48T
E-18	Air Filter inside cover	G/B-52	Pinion 10T
E-19	Screw 5x52 (Star)	G/B-53	Snap Ring-19
E-20	Plate Reinforcement(Air filter)	G/B-54	Dowel Pin Steel
E-21	Air Filter Sponge	G/B-55	Bolt (Allen) SKT HD 1/4"- 20×50
E-22	Air Filter out side cover	G/B-56	Bolt (Allen) SKT HD 1/4"- 20×38
E-23	N/A	E-64	Stud M6x62
E-24	Starter Reel	E-65	Gasket Muffler
E-25	Gasket Starter	E-66	Muffler
E-26	Starter Assy	E-67	Nut M6 Flanged
E-26-1	Rope Lock	E-68	Cover Muffler
E-26-2	Starter Handle	E-69	Screw 5x12 (Allen)
E-26-3	Rope Starter	G/B-70	Clutch Drum
E-26-4	Starter Case	G/B-71	Shaft Out Put 7/8"
E-26-5	Recoil spring		



Horticulture Plant Pit Digger KK-PPDE-52 / KK-PPDE-71

PROBLEM	POSSIBLE CAUSE	REMEDY / ACTION	
	Clogged fuel tank	Remove and clean the tank	
Engine misses or lacks power	2. Clogged air filter	 Clean or replace the air filter if necessary 	
	Carburetor out of adjustment or bad	 Call the service personnel 	
	Spark plug wet, faulty or improperly gapped	Clean, replace or adjust the gap of the spark plug	
Engine runs, then	Fuel cap not venting	Open manual venting fuel cap screw all the way open (counterclockwise)	
quits	2. Plugged fuel filter	 Clean or replace the filter 	
	Carburetor out of adjustment or bad	 Call the service personnel 	
Engine revs too high	Carburetor out of adjustment	 Call the service personnel 	
Auger turns at idle	Idle speed too high	Adjust idle speed to a lower value	
	2. Broken clutch spring	2. Replace the spring	
	1. Choke on	Turn off the choke after engine starts running	
A	Carburetor out of adjustment	Call the service personnel	
Auger turns, but has no power	Broken transmission	Call the service personnel	
	4. Worn clutch shoes	Replace clutch shoes and spring	
	5. Worn engine lower seat	5. Call the service personnel	
Auger jumps	1. Blade damaged	Replace with a new blade	
Auger cuts slowly	1. Dull blade	Buy new blade, or have blade sharpened at the service centre	
,	Damaged fishtail point	2. Replace fishtail point	

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Page 24 of 44

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Page 21 of 44

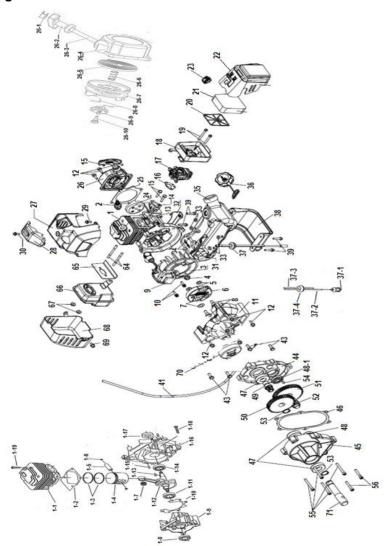


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Horticulture Plant Pit Digger KK-PPDE-52 / KK-PPDE-71

PARTS DIAGRAM & LIST- KK-PPDE-52

Engine:



Part No	Part Name	Part No	Part Name
E-1-1	Cylinder	E-26-6	Compression spring
E-1-2	Gasket Cylinder	E-26-7	Rope Reel
E-1-3	Piston Ring	E-26-8	Ratchet Pin
E-1-4	Piston	E-26-9	Ratchet
E-1-5	Piston Pin	E-26-10	Screw Ratchet
E-1-6	Circlip Piston Pin	E-27	Shroud, Engine
E-1-7	Needle Bearing Piston Pin	E-28	Cover, Engine Shroud
E-1-8	Oil Seal 12x22x7	E-29	Screw M5×16 (Allen)
E-1-9	Crankcase (Small)	E-30	Screw M5×20 (Star)
E-1-10	N/A	E-31	Bracket Lower, Fuel Tank
E-1-11	Bearing 6202	E-32	Bracket upper, Fuel Tank
E-1-12	Crankshaft	E-33	Cushion Rubber (Fuel Tank)
E-1-13	Key (Crankshaft)	E-34	N/A
E-1-14	Bearing 6202	E-35	Fuel Tank
E-1-15	Pin(Crankcase)	E-36	Fuel Tank Cap
E-1-16	Crankcase(Big)	E-37	Fuel line kit
E-1-17	Oil Seal 15x30x7	E-37-1	Petrol Filter
E-1-18	Screw 5X30 (Allen)	E-37-2	Fuel Pipe-Long
E-1-19	Screw 5X18 (Allen)	E-37-3	Fuel pipe-Short
E-2	Spark plug	E-37-4	Fuel pipe Grommet
E-3	Flywheel	E-38	N/A
E-4	Nut,M8 (Flanged)	E-39	Bolt M5x18 (Hex)
E-5	Washer-B	E-40	N/A
E-6	Clutch Shoe Assy	E-41	N/A
E-7	Washer-A	E-42	N/A
E-8	Clutch Bolt	G/B-43	BOLT HH 1/4"-20×19
E-9	IGNITION COIL	G/B-44	Gear Case Top