

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 Machine Tools Private 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 Machine Tools Pvt Ltd with respect to any warranty claim is final.

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 Machine Tools Private Limited

(\$): www.kisankraft.com

3: +91.80, 22178200

KisanKraft[®]

Warranty Certificate

(DEALER COPY)

Product	Knapsack Power Sprayer	KisanKraft Invoice Date	
Brand	KisanKraft	KisanKraft Invoice No.	
Model	□ KK-JP-708		
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 etc.):	(Address, Phone, TIN,
Buyer's Sign		Dealer's Sign	

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

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Customer Care Phone: 080.2233.0318, Email: kisankraft@gmail.com



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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.





Knapsack Power Sprayers KK-JP-708

Operation Manual



KisanKraft Limited.

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 ♦
 - ♦ Ernakulam ♦ Guwahati ♦ Patna ♦ Hinudpur ♦ Hubli ♦ Hyderabad ♦
- ◆ Jaipur ◆ Karnal ◆ Kolkata ◆ Lucknow ◆ Nagpur ◆ Pune ◆ Raipur ◆ Shimla ◆



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TROKE PETROL ENGINE- MANUAL
RTS DIAGRAM & LIST -ENGINE



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

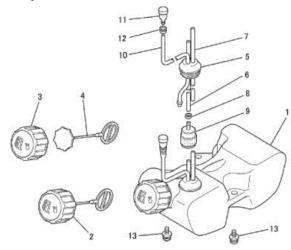
Transplanter and Post Hole Digger

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



2 - STROKE PETROL ENG

10. Fuel Tank System



Part No	Part Name	Part No	Part Name
E10-1	Fuel Tank Assy	E10-8	Bush
E10-2	Fuel Tank Lid/Tank Cap Assy	E10-9	Petrol Filter/Filter Fuel
E10-3	N/A	E10-10	Hose Fuel
E10-4	N/A	E10-11	Valve Breather
E10-5	Fuel Pipe Grommet	E10-12	Clip
E10-6	Fuel Pipe Long/Tube Fuel	E10-13	Screw & Washer
E10-7	Fuel Pipe Short/Tube Fuel		



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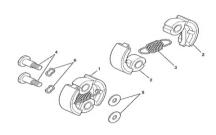
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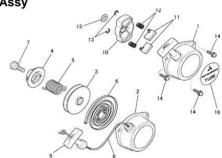
2 - STROKE PETROL ENGINE

8. Clutch System



Part No	Part Name	Part No	Part Name
E8-1	Clutch Shoe Assy	E8-4	Clutch Bolt
E8-2	Shoe Clutch	E8-5	Washer B-Clutch
E8-3	Spring-Clutch	E8-6	Washer A-Clutch

9. Recoil Starter Assy



Part No	Part Name	Part No	Part Name
E9-1	Starter Assy/Recoil Starter	E9-9	Starter Handle/Knob
E9-2	Starter Cover/Case Starter	E9-10	Start Reel
E9-3	Rope Reel	E9-11	Start Claw
E9-4	Ratchet Starter/Cam	E9-12	Claw Spring/Spring Return
E9-5	Ratchet Spring	E9-13	E Ring/Snap Ring
E9-6	Recoil Spring	E9-14	Screw & Washer
E9-7	Screw	E9-15	Washer
E9-8	Starter Rope	E9-16	Label Name

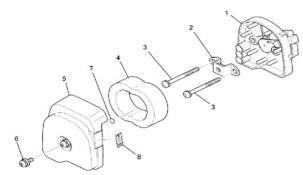
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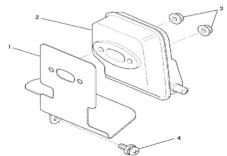


6. Air Cleaner System



Part No	Part Name	Part No	Part Name
E6-1	Air Cleaner Inside Cover/Case Cleaner	E6-5	Air Cleaner Outside Cover/Cover Cleaner
E6-2	Bracket	E6-6	Screw & Washer
E6-3	Screw & Washer	E6-7	O Ring
E6-4	Air Filter Sponge/Element Cleaner	E6-8	Label Name

7. Muffler System



Part No	Part Name	Part No	Part Name
E7-1	Gasket-Muffler	E7-3	Nut Flange
E7-2	Muffler	E7-4	Screw & Washer



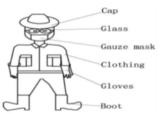
Knapsack Power Sprayers KK-JP-708

BEFORE GETTING STARTED

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

SAFETY INSTRUCTIONS

- Using this machine with extra high pressure is prohibited (≤35kgf/cm²);
- The rotating parts should have a safety protective device;
- Protective Clothing:
 - Wear flange cap.
 - Wear dirt/fog-proof glasses.
 - Wear gauze mask.
 - · Wear long gloves.
 - Wear coat guarding against poisons.
 - Wear boots.



- . Spraying towards personnel and working at the downwind position are prohibited;
- 5. Running the machine without water or lubricating oil is prohibited;
- 6. Using special working solutions as strong acid, strong alkali, etc. is prohibited
- 7. Following personnel should not use the machine:
 - Mentally challenged.
 - Drunk.
 - Under the age of 18 or older people.
 - Person with no knowledge of the machine.
 - Tired person or patient and others who cannot operate the machine normally.
 - A person who has just exercised strenuously or has not slept enough.
 Women feeding breast milk to the baby or is pregnant.

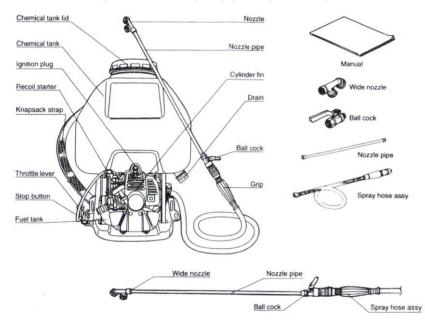
8. Spraying

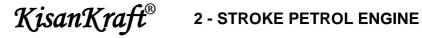
- It is fine to carry out an operation during cool weather with little wind.
 For example, early in the mornings or in the late afternoons as this can reduce the evaporation and drift of chemicals and improve the protective effect.
- The operator should move windward.
- If your mouth or eyes are spattered with chemicals, wash them with clean water and then visit a doctor.
- If the operator has a headache or dizziness, should stop working at once and consult a doctor immediately.



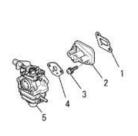
- For the operator's safety, misting/dusting must be carried out strictly according to the instruction of the chemicals and agricultural requirements.
- Spray over, according to pesticide manual to clean out any residual spray mixture in chemical tank.
- After spraying always wash your hands and face thoroughly

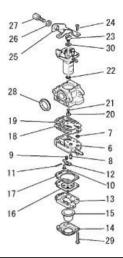
OVERVIEW OF COMPONENTS





5. Carburetor System



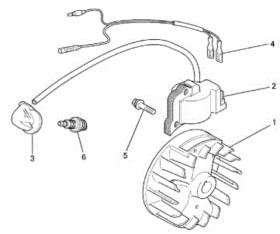


Part No	Part Name	Part No	Part Name
E5-1	Gasket-Insulator	E5-16	Diaphragm
E5-2	Insulator	E5-17	Gasket
E5-3	Screw & Washer	E5-18	Diaphragm
E5-4	Gasket-Carburetor	E5-19	Gasket
E5-5	Carburetor	E5-20	Jet Main
E5-6	Body Pump	E5-21	O Ring
E5-7	Screen	E5-22	Clip
E5-8	Valve Needle	E5-23	Wire Holder
E5-9	Spring	E5-24	Screw
E5-10	Screw	E5-25	Bracket
E5-11	Pin	E5-26	Nut
E5-12	Lever	E5-27	Screw
E5-13	Body	E5-28	Packing
E5-14	Cover	E5-29	Screw
E5-15	Primer Pump Assy	E5-30	Washer



Part No	Part Name	Part No	Part Name
E3-1	Crankshaft Assy	E3-5	Circlip-Piston Pin
E3-2	Piston	E3-6	Needle Bearing-Piston Pin
E3-3	Piston Pin	E3-7	Key-Crankshaft(Woodruff)
E3-4	Piston Ring	E3-8	Nut Conical SPG

4. Fly Wheel Magneto System



Part No	Part Name	Part No	Part Name
E4-1	Fly Wheel/ Rotor	E4-4	Cord Comp-Coil
E4-2	Ignition Coil	E4-5	Bolt & Washer
E4-3	Cap-Spark Plug	E4-6	Spark Plug



Knapsack Power Sprayers KK-JP-708

ASSEMBLY

Attach the wide nozzle, the nozzle pipe, the ball cock in an order to the spray hose, and connect the other end of the hose to the spray outlet.

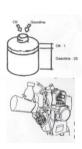


OPERATING INSTRUCTIONS

Pre-Operation Preparation:

Oiling

- Make sure to use 2T exclusive oil.
- Make sure that the engine is stopped and cooled.
- Neither overfill nor spill the fuel on the engine

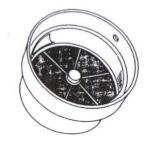


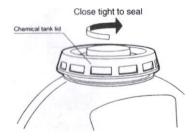
Dilution of chemicals/Charging the chemical tank

Caution: Agricultural chemicals are extremely dangerous, and must be handled with utmost care. Read the manual for the specific chemical carefully before use.

Dissolve water dispersible powder in a separate container before filling, be sure not to get foreign material into chemicals.

Always fill the chemical tank through the strainer so that contaminants are not mixed into the chemicals.







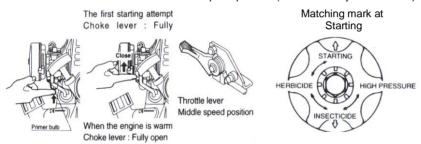
Open the air bleed nozzle, and bleed until the chemical is draining out, and then close the nozzle securely .Before spraying the agrochemical, be sure to put on suitable protective clothing to protect yourself against contact with and breathing it. Observe the following cautions for safe operation:

- a) Be sure to close the chemical tank cover securely.
- b) Check the spray hose and nozzle connections to make sure there are no leakage.
- c) Always stop the engine before refilling the fuel tank or changing the nozzle.
- d) When carrying a full chemical tank, be careful not to lose your balance.

Starting the Engine (Applicable for all the models):

Important: When starting the engine, be sure to fill the chemical tank with pure water or chemical liquid. Never run the engine when the chemical tank is empty.

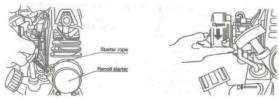
- Pump the primer bulb until fuel can be seen flowing through the fuel return line, and pull the choke lever to full close. (During hot weather and when the engine is already warmed up, the choke lever may be set to either half open or full open).
- 2. Set the throttle lever to the middle speed position (not necessarily to maximum).



- Pull the recoil starter lightly 2-3 times.
- 4. Pull the recoil starter strongly to start the engine.
- 5. If the engine stops after a few revolutions, set the choke to half open, and pull the recoil starter rope strongly again to restart it.

Note: If the engine does not catch even after the starter is pulled several times, set the choke lever to full open and pull the starter rope. Be sure not to pull the starter lever completely out. After the engine starts, open the choke lever slowly, move the throttle lever to the low –speed side, and let the sprayer warm up for 2-3 minutes.

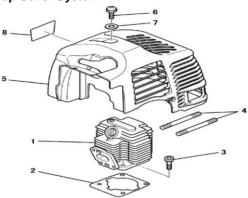
Pull briskly:





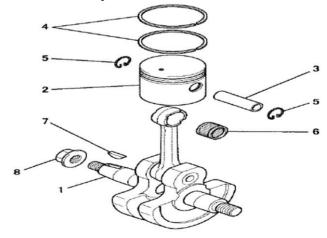
2 - STROKE PETROL ENGINE

2. Cylinder & Top Cover System



Part No	Part Name	Part No	Part Name
E2-1	Cylinder	E2-5	Guide Cover Assy/Cover Top
E2-2	Gasket Cylinder	E2-6	Screw & Washer
E2-3	Bolt SCH	E2-7	Washer
E2-4	Bolt STUD	E2-8	Label Name

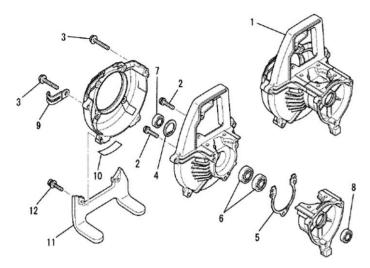
3. Crankshaft & Piston System





PARTS DIAGRAM & LIST -ENGINE

1. Crankcase System



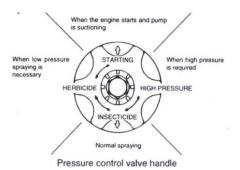
Part No	KK Part Name	Part No	Part Name
E1-1	Crankcase Assy	E1-7	Oil Seal
E1-2	Screw & Washer	E1-8	Oil Seal
E1-3	Bolt & Washer	E1-9	Clamp
E1-4	Stop Ring/Snap Ring	E1-10	Label
E1-5	Gasket Crankcase	E1-11	Engine Stand
E1-6	Bearing 6001	E1-12	Bolt & Washer



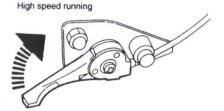
Knapsack Power Sprayers KK-JP-708

Operation

 Turn the handle of the control valve, and set it to the position for HERBICIDE, INSECTICIDE or HIGH PRESSURE to match the pressure of the operating conditions.



 Check the spraying conditions and the status of the equipment, then shoulder the equipment and set the throttle lever to the high speed position.



When the nozzle cock is opened, chemicals will be atomized as they come out of the nozzle.

IMPORTANT

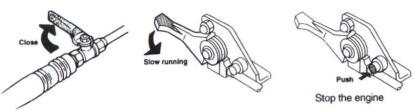
- 1. When the pressure control valve is changed to INSECTICIDE or HERBICIDE, with the throttle being fully open at HIGH PRESSURE position of pressure control valve handle, the engine speed will become too high, corresponding to the extent of lowered pressure. Therefore, use the equipment with the throttle lever somewhat turned back from the fully opened condition, when the equipment is used at the position for INSECTICIDE or HERBICIDE.
- 2. Be careful of the amount of fuel in the tank, and refill it when it becomes low.

To Stop:

Temporary halt during operation:

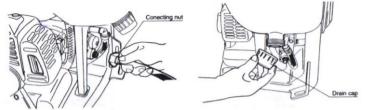
- 1. Close the spray gun, and return the throttle lever to low speed.
- 2. Press the engine stop button.
- 3. After the engine stops, set the sprayer down and close the fuel cock.





Stopping the sprayer after completing spraying:

- 1. Remove the chemical tank drain cap, drain off all of the chemical
- 2. Fill the chemical tank with clean water, operate the engine, and clean the pump and hose interior by spraying the clean water. Drain off the remaining water through the drain.



Start the engine at just less than high speed for 15-20 seconds to spray out the water in the spray hose and nozzle. When water stops coming from the nozzle, turn off the engine at once.

IMPORTANT

- 1. After each 4 continuous working hours, please turn the cap of grease cup for 1 or 2 rounds. This will lubricate the piston and prolong its life.
- 2. After every 100 working hours, please inspect the engine oil level in the pressure pump(you can see it from the oil window of the pump). In case, the oil level is lower than 1/3 position, please remove the oil inlet bolt and add engine oil up to 2/3 position
- 3. Be careful of the amount of fuel in the tank, and refill it when it becomes low.

To Stop:

Temporary halt during operation:

- 1. Close the spray gun, and return the throttle lever to low speed.
- Press the engine stop button.
- After the engine stops, close the fuel cock.



2 - STROKE PETROL ENGINE

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 inside.



Use of fire is strictly prohibited

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.)

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 1. use-up of fuel.
- 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

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.



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

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INSPECTION AND SERVICE

Table of regular inspections

Time Item	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

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.

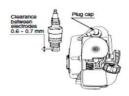
INSPECTION AND SERVICE AT EVERY 50-HOUR

Cleaning and adjustment of ignition plug

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

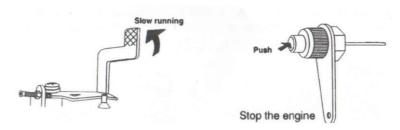


When mounting the plug cap, push it in securely





Knapsack Power Sprayers KK-JP-708

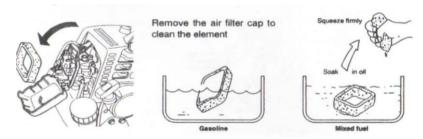


Stopping the sprayer after completing spraying:

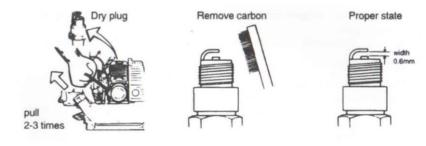
- 1. Drain off all of the chemical from the chemical tank.
- Fill the chemical tank with clean water, operate the engine, and clean the pump and hose interior by spraying the clean water.
 Start the engine at just less than high speed for 15-20 seconds to spray out the water in the spray hose and nozzle. When water stops coming from the nozzle, turn off the engine at once.

MAINTENANCE AND STORAGE

Cleaning the air cleaner:



Plug:



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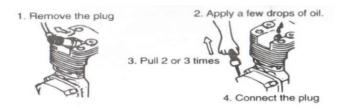
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Storage:

After using the sprayer for the season, store it until the next season of use as follows:

- Drain off all fuel from the fuel tank and the carburetor.
- Remove the spark plug and coat the cylinder with a small amount of oil. Pull the recoil starter lightly 2-3 times to spread the oil over the cylinder completely as shown in the figure below.



- Pull the recoil starter out slightly and stop it in place where you feel the pull start (compression starts).
- Clean the entire sprayer completely, cover it so it does not accumulate dirt and dust, and store it in a dry, cool location.

TECHNICAL SPECIFICATIONS

Model	KK-JP-708
HP	0.74kW (1hp)
CC	26 cc
Engine Type	2 – stroke Mitsubishi
RPM / Output Pressure	1800 (Pump RPM)/ 7500 (engine RPM) /2 Mpa-3.5Mpa
Fuel Used	Petrol



2 - STROKE PETROL ENGINE

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.



Increasing the slow revolution excessively causes the driven equipment unable to stop even if the throttle lever is returned. The revolution speed should not be increased excessively.

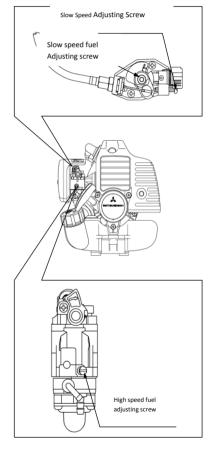
- In case with the slow speed fuel adjusting screw Normal position is where it is returned by one turn from the fully closed position (right turn).
 - Right turns: Increase the thickness of fuel.
 - Left turns: Decrease the thickness of fuel.
- 3. In case with the high speed fuel adjustment screw
 -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



Fuel adjustment for the carburetor is completed at the optimum condition before shipping from the factory. When it is necessary to adjust, consult your dealer.



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



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- 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



Knapsack Power Sprayers KK-JP-708

Model	KK-JP-708	
Fuel Tank Capacity	600 ml (Petrol)	
Suction volume	7-9 L/min	
Chemical tank capacity	20 L	
Oil (Mixing)	40ml (2T) oil per 1 Liter of Petrol & 100 ml (20W 40 Grade) for Gear Box	
Fuel Consumption / Out Put Capacity	500 ml/hour (Engine) & 180 Liter/hour (Output)	
Feature	Knapsack	

TROUBLESHOOTING

Pump:

Trouble	Cause	Remedy
	Hose is Loose	Tighten the hose carefully
No Suction	Suction hose is clogged with chemicals.	Disassemble and clean the hose.
	Worn piston packing.	Replace with a new piston
	Foreign object in valve parts.	Disassemble and clean the valve.
	Worn piston packing	Replace with a new piston
	Flaw in cylinder inner surface	Replace with a new cylinder
	Flaw in exhaust valve	Replace with a new valve
Poor spray quality	Worn pressure control valve handle	Replace with a new handle
1 oor spray quality	Foreign object in valve parts	Disassemble and clean the valve.
	Worn nozzle hole.	Replace with a new nozzle.
	Too many nozzle attached	Reduce number of nozzles or replace with nozzle of smaller holes.



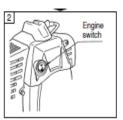
When engine fails to start:

Trouble		Cause	Remedy
	There is power at the terminal.	Drawing too much fuel	Tuning the carburetor
There is fuel,		Faulty spark plug gap.	Adjust the spark plug gap
but spark plugs fail to	tomma.	Faulty spark plug insulation.	Replace the spark plug
ignite.	No power at	Faulty TCI unit or broken wire	Replace the ignition
	the terminal	A break or short in the ignition coil.	coil.
There is fuel	Compression is good	Bad Mixture	Adjust the carburetor
	Compression is bad	Faulty packing	Tighten the spark plug
and spark plug ignites		Spark plugs not tightened properly	Tighten the spark plug
		Piston rings are sticking	Replace the piston ring
		No fuel in the tank	Fill the tank with fuel
No fuel in the carburetor		Fuel valve is faulty or fuel tank air vent is clogged.	Clear air vent hole
		Lines are bent	Replace lines



2 - STROKE PETROL ENGINE

- 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.





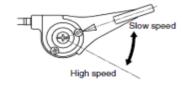
CAUTION

- 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 at 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.

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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-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

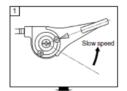
Concerning New Start System

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.





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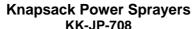
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Engine fails to run smooth:

Trouble		Cause	Remedy
	Compression is good and there	Air cleaner element is plugged up.	Clean or replace air cleaner if necessary
		Air has entered fuel line joints.	Clear the fuel line
	is no misfire	Faulty choke lever	Replace choke lever
No power		Carbon build up on cylinder muffler.	Clean the muffler
		Burnt spark plugs	Replace the spark plug
		Short in cable	Replace the cable
	Compression is bad	Bad mixture or piston ring wear.	Replace the piston ring
		Marks on cylinder. Cracks in the piston head	Replace the piston
		Fuel is too low (mixture is too thin).	Engine over oiling.
		Faulty mixture, not enough mixture.	Clear the lines
Engine over	heated	Carbon piled up, overloaded operation.	Clean the carbon
		Faulty spark plugs.	Replace the spark plugs
		Plugged cylinder or coolant lines	Clean the coolant lines
		Carburetor not adjusted properly.	Adjust the carburetor gap properly
Inaccurate e	explosion	Faulty spark plugs.	Replace the spark plug
		Faulty magneto or internal short	Replace he magnet
		Overheated cylinders	Replace the cylinder
		Overload operation	Right quantities of petrol and oil should be mixed
Engine doesn't sound right		Faulty mixture or incorrect ratio	to enable proper lubrication
		Internal engine damage	Replace the necessary spares/contact service person
Slow acceleration		Carburetor not adjusted properly or faulty compression	Adjust the carburetor gap properly
		Poor gasoline oil quality	Use good quality gasoline-oil mixture.
		Carbon pile up	Clean the carbon

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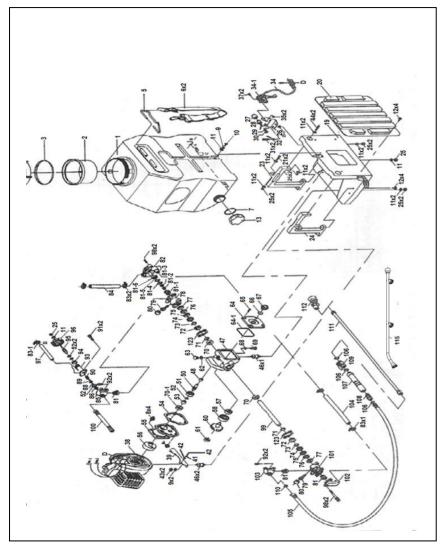
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KK-JP-708

PARTS DIAGRAM-POWER SPRAYER (BODY)

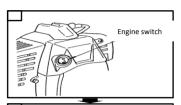


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2 - STROKE PETROL ENGINE

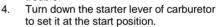
START (STARTER LEVER TYPE UNIT)

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.



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

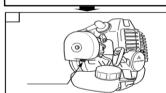
(To be left in the operating position) Depending on specifications, the starter lever may be provided at the throttle wire

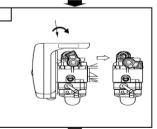
While holding down the engine firmly, grasp the recoil starter grip and pull vigorously

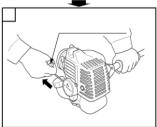
A CAUTION:

- a) When the engine stops on the way after starting, or
- 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.









OPERATION INSTRUCTIONS

Methods of starting & stopping the engine

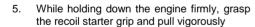
START (CHOKE TYPE UNIT):

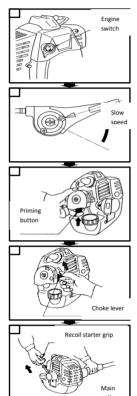
- 1. Turn the engine switch to the "ON" side.
- Set the throttle lever at the slow speed position.
- Push the priming button repeatedly with finger till it hits the top. (More than 10 times) Pressing the priming button is necessary to prime the fuel to facilitate the start-up. Since any excess amount 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.
- 4. Turn the choke lever to the fully closed position

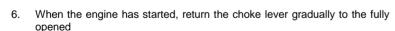
(at the Mark).

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

position (at the mark)







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.



Knapsack Power Sprayers KK-JP-708

PARTS LIST - POWER SPRAYER (BODY)

Part no.	Part name (body)	Part no.	Part name (body)
B1	Chemical Tank 708	B56	Clutch Drum
B1	Chemical Tank 800	B57	Bearing-6200
B2	Strainer (Big)-Chemical Tank	B58	Bearing-6203
В3	Gasket-Chemical Tank Lid	B59	N/A
B4	Chemical Tank Lid	B60	Gear
B5	Belt Holder	B61	Bearing-608
B6	Shoulder Belt	B62	'O' Ring-Oil Inlet Bolt
B7	Gasket -Drain Cap	B63	Oil Inlet Bolt
B8	Screw M6x18-Hex	B64	Crank Case Cover
B9	Washer 6-Spring	B64-1	'O' Ring -Crank Case Cover
B10	S T Screw	B65	Screw -Crank Case Cover
B11	Washer 6-Plain	B66	'O' Ring -Oil Glass
B12	Screw M6x25-Star	B67	Oil Glass
B13	Drain Cap-Chemical Tank	B68	'O' Ring -Oil Drain Bolt
B19	Frame 708/800	B69	Oil Drain Bolt
B19	Frame-Metal 768	B70	Oil Seal -18x28x8
B20	Rubber Pad	B70-1	Oil Seal -18x28x8
B21	Screw M6x18-Hex	B71	'O' ring-Plunger
B23	Right Stand	B72	Adjusting Ring
B24	Left Stand	B73	Grease Seal
B25	Nut M6-Nylon	B74	Grease Ring
B26	Fixed Plate-Flex Accelerator	B75	V-Packing
B28	Switch On/Off	B76	N/A
B30	Nut M8-Hex	B77	V-Packing Seat
B31	Screw M6x18-Hex	B78	Cylinder-Right
B32	Cord Comp-Wire	B79+80	Grease Cup
B33	N/A	B81	Valve Assy
B34	Throttle Cable	B82	Suction Chamber-Right

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Part no.	Part name (body)	Part no.	Part name (body)
B34-1	Flex Accelerator	B83	Clip-L
B35	Nut M6-Nylon	B83-1	Clip-S
B37	Screw M6x18-Hex	B84	Suction Hose-5" 708/800
B38	N/A	B84	Suction Hose-2.5Mts 768
B39	Engine Stand	B85	Outlet Chamber -Right
B40	Washer 5-Plain	B86	Steel Ball Seat
B41	Washer 5-Spring	B88	Steel Ball
B42	Screw M5x25-Allen	B89	Pressure Valve Rod
B43	Nut M6-Nylon	B90	Relief Valve Spring
B46	Joint-S	B91	Screw M6x18-Hex
B46-1	Joint-L	B92	Screw M6x18-Hex
B47	Crank Case	B93	Relief valve Body
B48	Needle Bearing-For Shaft	B94	Brass Nut-Relief Valve
B50	Shaft	B95	Relief Valve Screw
B34	Throttle Cable	B96	Pressure Adjusting Knob
B34-1	Flex Accelerator	B97	Over Flow Hose-5" 708/800
B35	Nut M6-Nylon	B97	Over Flow Hose-2.5Mts 768
B37	Screw M6x18-Hex	B98	Screw M6x75-Hex
B38	N/A	B99	Plunger
B39	Engine Stand	B100	High Pressure Hose -Small
B40	Washer 5-Plain	B101	Cylinder-Left
B41	Washer 5-Spring	B102	Suction Chamber-Left
B42	Screw M5x25-Allen	B103	Outlet Chamber-Left
B43	Nut M6-Nylon	B104	Suction Hose-9"
B46	Joint-S	B105	High Pressure Hose -Big
B46-1	Joint-L	B106	Packing -Handle/Spray Rod
B47	Crank Case	B107	Hose Pipe Handle
B48	Needle Bearing-For Shaft	B108	N/A
B50	Shaft	B109	Ball Cock-One Way



2 - STROKE PETROL ENGINE

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.

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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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INSPECTION BEFORE OPERATING THE ENGINE

NOTE: In **2 Stroke** engine the gasoline and engine oil are mixed and poured together.

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):

Petrol: 2-cycle engine oil 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:

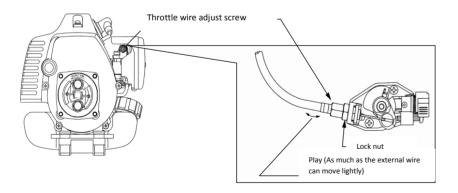
Adjust the play on the throttle wire to 0.5 ~ 1.0 mm.

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.





Knapsack Power Sprayers KK-JP-708

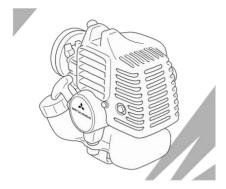
Part no.	Part name (body)	Part no.	Part name (body)
B51	Bearing-6201	B110	Packing-High Pressure Hose
B52	'O' Ring-Steel Pipe	B111	Spray Rod
B53	Steel Pipe	B115	Nozzle(3 Hole)
B54	Gasket-Drum Case	B123	Fixed Plane
B55	Drum Case		

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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.
- Do not adjust the setting engine speed unnecessarily.
- Do not check sparks while the ignition plug is removed.

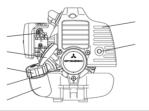
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2 - STROKE PETROL ENGINE

- 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 burns.)
- 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.

COMPONENTS OVERVIEW



- Recoil starter grip
- Starter lever
- 3. Cooling air inlet
- 4. Fuel tank cap
- Fuel tank
- 6. Muffler
- Exhaust outlet (Types vary depending on the specifications.)



Engine switch (Types vary depending on the specifications.)

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- 9. Clutch
- 10. Ignition plug cap
- 11. Air cleaner
- Carburetor
- 13. Priming button

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