

but not limited to, loss of use, loss of profits, loss of production, expense of substitute equipment or other commercial loss or damage.

**Limitation of Liability:** This limited warranty is in lieu of all other express warranties, obligations, or liabilities. Any implied warranties, obligations or liabilities, including, but not limited to, any implied warranty of merchantability shall be limited in duration to the applicable warranty period. Any action for breach of any warranties hereunder, including, but not limited to, any implied warranty of merchantability must be brought within the applicable warranty period.

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Product	<b>Agricultural Knapsack Sprayer</b>	KisanKraft Invoice Date	
Brand	<b>KisanKraft</b>	KisanKraft Invoice No.	
Model	☐ KK-BBS-318,☐ KK-BBS-199,☐ KK-BBS-4189,☐KK-BBS-185		
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**Important:** (1) Normal maintenance and adjustments to the product is the responsibility of the customer. (2) Normal wear and tear are not covered under warranty. (3) Rubber/plastic parts and consumables such as blades, clutch and clutch-bell, sparkplugs, nylon line, air-filters, fuel-filters, oil seals and gaskets etc. are not covered under the warranty. (4) Electrical Motor, Electrical Parts, Battery Etc. are not covered under the warranty.

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## Wide Range of Products for Every Need



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



Many of our products have BIS: ISI certification.



## User Manual



### **KisanKraft Limited**

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

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

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

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

Model	KK-BBS-318	KK-BBS-199	KK-BBS-4189	KK-BBS-185
Chemical Tank Capacity	18L			
Operation type	Battery & Manual	Battery	Battery & Manual	Battery
Battery	12V, 8AH	12 V,12 AH	12 V,12 AH	12V, 8AH
Charger	1.0A			
Liquid Output	81.12 L/hr	7.2L	3.6L	3.6L
Additional features	Auto cut-off pump, SS telescope lance, 4 plastic nozzles, speed controller	Robust construction, Telescope lance, Heavy duty trigger control, High Speed Double Motor, Heavy duty tank	Auto-cut off pump, SS telescope lance and 4 plastic nozzles, speed controller,	Robust construction, Heavy Duty Trigger Control, SS telescope lance, high speed Heavy duty tank,
Weight	6.7 kg	7.2 kg		

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## TROUBLESHOOTING

Problem	Probable cause	Solution
The sprayer cannot be started or stopped working suddenly.	1. The battery has no charge or bad connection 2. Battery operated protector break the contact as the machine is too hot.	1. Check the lines and fix the plug correctly 2. Don't use the sprayer until the battery part cools down
The liquid can't spray out through the nozzle or the pressure is unstable	1. Holes of the nozzle got blocked. 2. Air in tube 3. A blockage in the water pump 4. Water suction tube is broken	1. Dismantle and wash the nozzle. 2. Check the tube to find the leaking place, screw tightly to expel air. 3. Dismantle the water pump's cover and clean it 4. Replace the tube.
Low pressure	1. Filter net in the tank mouth or in the spraying switch is blocked. 2. Battery is out of power	1. Wash the filter net. 2. Charge the battery.
Joint is leaking	1. The joints are loose 2. Rubber seal is broken	1. Tighten the screws 2. Replace the rubber seal
Spraying is not proper	1. Nozzle is blocked 2. The core of nozzle is broken	1. Clean the nozzle 2. Replace the core

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**4 Hole adjustable spray:** This can be used for spraying on the high stalk crops and fruit trees. Its shortcoming is the serious running off the medicinal liquid.



## OPERATION INSTRUCTIONS (BATTERY)

1. Before using the sprayer, firstly you should charge the battery and connect its connector plugs to electrical charging supply with rating pressure 220v till indicator light turns green. It may take about 24 hours for the first time.
2. Don't use insoluble powder, else the deposit may lock the filter net. Use liquid chemicals only.
3. The temperature of the spraying liquid should not exceed 43°C(110°F)
4. User must use filter net to prevent impurity entering into the tank, which could cause blockage and cause malfunction in this equipment.
5. Clean the overflow/spilled liquid chemicals on time. Take the battery out and clean it with dry cloth at once if it touches the liquid.
6. Screw the lid tightly after filling the tank to capacity.
7. Turn on the battery supply, press the spraying switch, it would spray in few second, and it would stop spraying when you unloose handle. Please turn off the battery supply when there is no liquid as the equipment would go on working. Also we designed the function of automatic locking in handle to reduce human fatigue.
8. Spray remaining liquid to safety place after turning off battery supply.
9. Operator should clean the residue in water tank and water pump with clean fresh water
10. To preserve the sprayer, please make sure there is no remaining water especially when it was used in cold area.
11. Charge up the battery especially after using.(charge up the battery once in every 3 months if it is idle for a long time)

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## BEFORE GETTING STARTED

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

## PRODUCT INTRODUCTION

The battery sprayer use rechargeable battery as power source, adopts advanced non-metal membrane pump, has the characters of energy saving & environmental protection, be against chemical corrosion, automatic demand starts and handles the diversity of fluid, intermittently work with low rate of flow and low energy consumption, has high pressure, even spraying, good atomization effect, without contamination. It also has reduced the labor intensity of operator greatly, and meantime the spraying effect has doubled when compared to ordinary sprayer. Once the battery is charged for 8 hrs, it can continually work for 7-8 hours, this saves cost a lot when compared to power sprayers (using engine). The battery sprayer is equipped with single and double nozzle which can increase spraying speed and working efficiency.

It is widely used in the prevention and treating plant diseases of various crops such as paddy, cotton, flowers, tobacco, tea, horticulture and greenhouse & shed, and may also be used to disinfect and exclude mosquito and sterilization in public places.

## SAFETY INFORMATION

Please read the user manual carefully. Using the sprayer under dangerous condition may result in hazards to the individual natural objects. You must read carefully and be follow the safety precautions to ensure personal safety and safety of others.

1. Improper use of this product may cause serious harm. Children and minors (below 18 years of age are forbidden to use this product.
2. It is prohibited to spray on humans or animals
3. Don't place the product in an unattended place. Turn off the battery supply if it is idle for a long time.
4. Don't store poisonous liquid chemicals in the sprayer.
5. Keep the sprayer out of reach of direct sun rays.
6. Don't disassemble or refit the product by yourself.

## STRUCTURE, WORKING PRINCIPLE & CHARACTERISTICS

**Structure:** The machine is composed of the following:

1. Container of liquid
2. Pump and air chamber
3. Spraying system (including rubber hose and components, switch, sprayer spindle and head)
4. Operation arm and components
5. Backpack belt system

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**Working principle:** By swinging the operation arm and components, the pump bowl rises up and down which allows the sealing ball to turn on and off. This in turn makes the pressure in the air chamber rise up and down which then forces the medicinal liquid into the chamber, the liquid can then go through the spraying system and spurt out as spray.

### Characteristics:

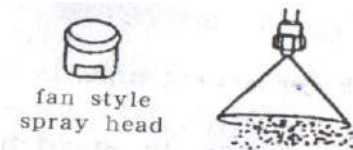
1. The external form is an imitation of the human backs curve and the combination of the air chamber and pump located in the liquid container makes the whole structure compact and safe with no leakage.
2. The operation arm uses an action connecting style so that it can be installed on both sides (mutually changeable). Thus It is convenient and quick in action and the user can operate it accordingly with the right or left hand reducing the labour intensity.
3. Various spray heads can be fitted for use in different tasks, to achieve a fine spray and sprinkle effects.
4. The chosen materials for the machine are resistant to acid, alkalinity and corrosion. The machine is sealed hermetically and is very durable.

## OPERATION INSTRUCTIONS (MANUAL)

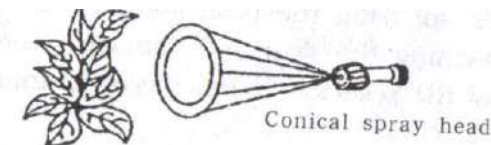
After the packing box of new machine is opened please check all the parts conform to the packing list. Then assemble the machine as per the structure sketch. Before use please wrench the cap off the container. Pour the compounded medicinal liquid through the filter into the container slowly, then close the cap tightly and put the machine on your back. After the pressure in the air chamber is boosted swing the operation arm and then press the switch component to begin spray operation. It can be point-spray or it can be continuous spray. At the same time adjust the nut according to the requirement of the crops in order to improve the quality of spraying.

Choose the different spray-head for spraying correctly. Accompanying with the machine delivered there are 3 kinds spray heads:

**Fan style spray:** This sprays evenly and is suitable for spraying on low and short stalked crops and for the spraying of weed killer. Keep the spray head stable and spray in the same direction as the wind.



**Conical spray head:** This can be used for spraying pesticide and insecticide, to prevent diseases and kill insects. Spray in the same direction as the wind.



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