

## **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 warranties 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.

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<sup>®</sup>

## **Warranty Certificate**

(DEALER COPY)

Product	BATTERY SPRAYER	KisanKraft Invoice Date		
Brand	KisanKraft	KisanKraft Invoice No.		
Model	□ KK-BBS-212,□ KK-BBS	S-218 , <b>□</b> KK-BBS	-31	5, <b>□</b> KK-BBS-318
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 (Name, Address, Phone, etc.):		Dealer's Stamp (Address, Phone, TIN, etc.)		dress, Phone, TIN, etc.):
Buyer's Sign		Dealer's Sign		

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

This warranty will only cover defects arising under normal usage.

This warranty is limited to repair or replacement by KisanKraft Limited or its manufacturers at the premises of Authorized Dealers, of such parts as appear to KisanKraft or its manufacturers, upon inspection, to be defective in material and/or workmanship. KisanKraft or its manufacturers make no warranty with respect to trade accessories not manufactured or sold by them.

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.

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

⊠: info@kisankraft.com

**2**: +91.80.22178200

Page 32 of 32

Page 1 of 32



## **Warranty Certificate**

(DEALER 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 warranties 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.

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

**2**: +91.80.22178200

KisanKraft®

## **Warranty Certificate**

(KISANKRAFT COPY)

roduct	BATTERY SPRAYER	KisanKraft Invoice Date			
Brand	KisanKraft	KisanKraft Invoice No.			
Model	☐ KK-BBS-212, ☐ KK-BBS	S-218, <b>□</b> KK-BB	S-315	, <b>□</b> KK-BBS-318	
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 (Na	ame, Address, Phone, etc.):	Dealer's Stamp (Address, Phone, TIN, etc.):			
Buyer's Sign		Dealer's Sign			

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

This warranty will only cover defects arising under normal usage.

This warranty is limited to repair or replacement by KisanKraft Limited or its manufacturers at the premises of Authorized Dealers, of such parts as appear to KisanKraft or its manufacturers, upon inspection, to be defective in material and/or workmanship. KisanKraft or its manufacturers make no warranty with respect to trade accessories not manufactured or sold by them.

**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.

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

**2**: +91.80, 22178200

Page 2 of 32 Page 31 of 32





## **Wide Range of Products for Every Need**



For more information give MISSED CALL: 07676065555



Many of our products have BIS: ISI certification.





BATTERY SPRAYER KK-BBS-212/218/315/318

## **Operation Manual**

KK-BBS-212/218/315/318 (Without Battery)



## 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◆

: www.kisankraft.com

⊠: info@kisankraft.com

**2**: +91.80. 22178200

Page 30 of 32

(\$): www.kisankraft.com

**2**: +91.80.22178200

Page 3 of 32





## 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)

(\$): www.kisankraft.com **2**: +91.80.22178200 : www.kisankraft.com

Page 4 of 32

**2**: +91.80, 22178200

Page 29 of 32

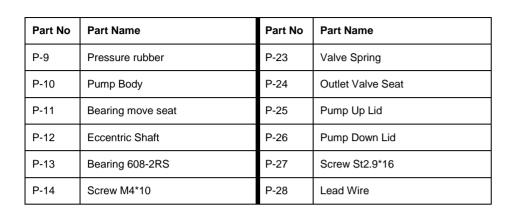




## BATTERY SPRAYER KK-BBS-212/218/315/318

## **CONTENTS**

BEFORE GETTING STARTED	8
APPLICATION	8
FEATURES	8
SAFETY SYMBOLS	8
SAFETY INSTRUCTIONS	9
MAIN CONSTRUCTION	11
METHODS OF OPERATION	11
TECHNICAL SPECIFICATION	15
TROUBLESHOOTING	16
MAINTENANCE AND STORAGE	18
ELECTRICAL CIRCUIT DIAGRAM	20
SPRAYER DIAGRAM & PARTS LIST	21





## **Warranty Certificate**

(CUSTOMER COPY)

Product	BATTERY SPRAYER	KisanKraft Invoice Date		
Brand	KisanKraft	KisanKraft Invoice No.		
Model	☐ KK-BBS-212,☐ KK-BBS	6-218, <b>□</b> KK-BBS-	-315, <b>□</b> KK-BBS-318	
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 (Na	ame, Address, Phone, etc.):	.): Dealer's Stamp (Address, Phone, TIN, etc.):		
Buyer's Sign		Dealer's Sign		

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

This warranty will only cover defects arising under normal usage.

This warranty is limited to repair or replacement by KisanKraft Limited or its manufacturers at the premises of Authorized Dealers, of such parts as appear to KisanKraft or its manufacturers, upon inspection, to be defective in material and/or workmanship. KisanKraft or its manufacturers make no warranty with respect to trade accessories not manufactured or sold by them.

**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.

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

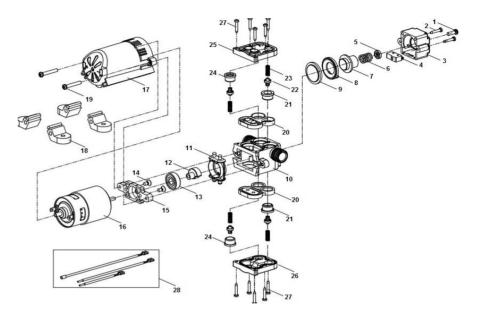
(\$): www.kisankraft.com

**2**: +91.80, 22178200

KisanKraft®

## BATTERY SPRAYER KK-BBS-212/218/315/318

#### PUMP DIAGRAM - KK-BBS-315/318



#### PUMP PARTS LIST - BBS-315/318

Part No	Part Name	Part No	Part Name
P-1	Screw M4*12	P-15	Motor holder
P-2	Screw St2.9*13	P-16	Motor
P-3	Pressure valve lid	P-17	Motor cover
P-4	Micro Switch	P-18	Motor Feet
P-5	Spring Seat	P-19	Screw M4*25
P-6	Pressure Spring	P-20	Diaphragm
P-7	Pressure piston	P-21	Inlet Valve Seat
P-8	Ring (Plastic)	P-22	Valve (inlet & outlet)

(\$): www.kisankraft.com

**3**: +91.80, 22178200

Page 27 of 32

Page 6 of 32



Part No	Part Name	Part No	Part Name
B-14	Side Plate	B-47	O-Ring 4.4X1.8(Pressure Shaft)
B-15	Screw ST 2.9x8	B-48	Pressure Shaft
B-16	Washer 3	B-49	Switch Felt Washer
B-17	Volt Meter	B-50	Washer Seat
B-18	Voltage Regulator	B-51	Spring(Trigger)
B-19	The Line For Recharging	B-52	Switch Nut Washer
B-20	Power Switch	B-53	Switch Nut
B-21	Pump Board (Bottom)	B-54	Split Sleeve
B-21-1	Pump Board (Upper)	B-55	Case Nut(Round Bar)
B-22	Cover Plate	B-56	Round Bar
B-23	Washer 5 (Plain)	B-57	N/A
B-24	Screw M5x10	B-58	N/A
B-25	Fastening Buckle	B-59	N/A
B-26	Shoulder Belt	B-60	N/A
B-27	Screw M5x10	B-61	F Style Spray Head
B-28	Washer 6 Plain	B-62	Joint
B-29	Belt Pad	B-63	Fan Style Spray Head
B-30	Hose Clamp (metal)	B-64	Charger
B-31	O Ring (Round Bar)	B-65	Circuit box
B-32	Absorb Pipe	B-66	Spray Head
B-33	Hose Clamp (Plastic)	B-67	Trigger Assy



## Warranty Certificate

(CUSTOMER 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 clutchbell, 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 warranties 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.

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

**2**: +91.80. 22178200



# KisanKraft<sup>®</sup>

## BATTERY SPRAYER KK-BBS-212/218/315/318

#### **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. Please make a note that this product is always improving, maybe the machine you buy does not coincide with the manual, exactly.

#### **APPLICATION**

The knapsack electrical sprayer is the new model electrical sprayer developed by our company. They have a reasonable design, beautiful outlook, reliable character and are economical products. They have advantages of safety, trustiness, energy saving, good misting effect, the high use ratio of pesticide, and wide range of usage. It is suitable for use in prevention of plant diseases and pests, such as cotton, wheat, paddy, fruit trees, and tea trees and so on. It can also be used for the prevention of the pests of garden flower, epidemic prevention near hotels, stations and other public places and poultry.

#### **FEATURES**

- The machine adopts subminiature direct current as the power, hence safe and reliable.
- The handgrip adopts linkage-control motor switch, making the operation easy and safe...
- The dissepiment pump of the machine is bi-directional, simple structure and easy maintenance.
- > The machine has a high pressure, heavy flow, high spraying effect and good effect in prevention of pests.
- The shape of the nozzle of main spraying parts is F, so it has a broad width and high effect. The overall parts of dissepiment pump are made of plastic, so it has the property of low weight and anti-corrosion.

## **SAFETY SYMBOLS**

In this manual, there are some warning signs which imply different safety information. When you see the sign, please be on guard against the harm that may incur.

The introduction of the warning sign in the manual is here under:

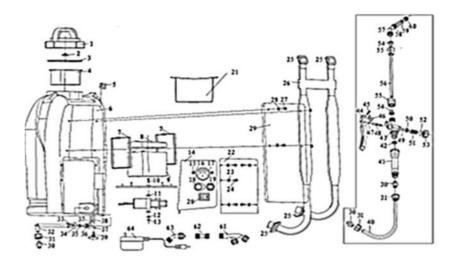
Please follow the safety instructions given in this manual.



Don't injure yourself or any other person

Don't damage the machine

#### PARTS DIAGRAM (BODY)-KK-BBS-315/318



## PARTS LIST (BODY) - KK-BBS-315/318

Part No	Part Name	Part No	Part Name
B-1	Container Cap	B-34	Case Nut(water Pipe)
B-2	Air Intake Plug	B-35	Rubber Washer
B-3	Felt Washer(Container Cap)	B-36	Water Pipe (Plastic)
B-4	Large Filter	B-37	Snap Link
B-5	Round Rod Clamp	B-38	Absorb Pipe (For Filter)
B-6	Water Tank	B-39	Little Filter
B-7	The Belt For Battery	B-40	Hose
B-8	Lag/Battery Cover	B-41	Switch Handle
B-9	Battery	B-42	Felt Washer(Switch Handle)
B-10	Screw M4X18	B-43	Switch Body
B-11	Motor with Pump	B-44	Press Plate
B-12	Washer 4 Plain	B-45	Switch Pin
B-13	Nut M4	B-46	Lock Catch



# KisanKraft<sup>®</sup>

## BATTERY SPRAYER KK-BBS-212/218/315/318

#### PUMP PARTS LIST - KK-BBS-212/218

Part No	Part Name	Part No	Part Name
P-1	Screw M4*12	P-15	Motor holder
P-2	Screw St2.9*13	P-16	Motor
P-3	Pressure valve lid	P-17	Motor cover
P-4	Micro Switch	P-18	Motor Feet
P-5	Spring Seat	P-19	Screw M4*25
P-6	Pressure Spring	P-20	Diaphragm
P-7	Pressure piston	P-21	Inlet Valve Seat
P-8	Ring (Plastic)	P-22	Valve (inlet & outlet)
P-9	Pressure rubber	P-23	Valve Spring
P-10	Pump Body	P-24	Outlet Valve Seat
P-11	Bearing move seat	P-25	Pump Up Lid
P-12	Eccentric Shaft	P-26	Pump Down Lid
P-13	Bearing 608-2RS	P-27	Screw St2.9*16
P-14	Screw M4*10	P-28	Lead Wire



Use correctly in order not to pollute the environment

Everyone has the duty to protect the environment and save energy!

While you strictly follow the rule of operating in this manual, you should do set below:

Don't use the virulent pesticide prohibited by the government.

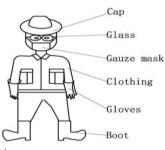
Don't use the machine to harm the environment and public profits.

Please use the machine cautiously without affecting the ecological balance.

Don't let the deposit pesticide flow arbitrarily in order to avoid the environment pollution.

## **SAFETY INSTRUCTIONS**

- Read this manual carefully, be sure you understand how to operate this machine properly before you use it.
- 2. Protective Clothing:
  - Wear flange cap.
  - Wear dirt/fog-proof glasses.
  - Wear gauze mask.
  - Wear long gloves.
  - Wear coat guarding against poisons.
  - Wear boots.



- B. 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.

#### 4. Recharge

- > If the wire/ plug is bad, or the socket is loose, don't use it as there is a risk of an electric shock and even fire.
- > Don't pull the plug with wet hand to avoid electric shock.
- > If the plug wasn't inserted into the socket completely, there is a danger of experiencing an electric shock, and even a fire.
- Please clear away the dust on the plug. The dust also can cause a fire.
- Don't lay this machine in a wet or a dusty place to avoid electric shock, heat, split and so on.
- Don't charge above the set time, or it will cause a battery leak, heat split and so on.





## BATTERY SPRAYER KK-BBS-212/218/315/318

- When storing the machine avoid direct sunlight, hot environment and avoid things that emit heat of their own. Otherwise, it will speed up the aging of the battery, and may cause weeping, emit heat, craze, or strike fire etc.,
- Don't charge when the temperature of the battery is low or in the cold weather, as it may cause the battery to leak and will shorten its life.
- Don't throw the battery into the fire or heat as it will split the battery.
- If you find any battery leak, colour change and distortion, don't use it any more.

#### Spraying

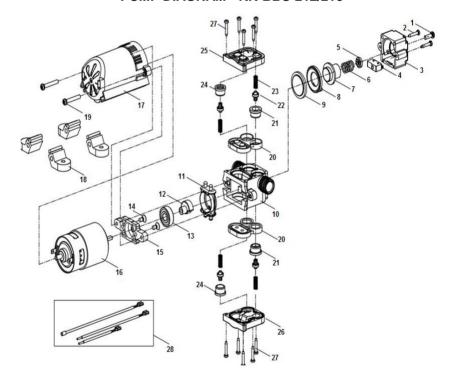
- It is fine to carry out an operation during cool weather with little wind. For example, early in the mornings or in the late afternoons as this can reduce the evaporation and drift of chemicals and improve the protective effect.
- > The operator should move windward.
- > If your mouth or eyes are spattered 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.

#### 6. Warning:

- > Check if the parts in the package coincide with the packing list.
- > The new machine must be charged before using. It is normal for a new machine and the machine stored for a long time to charge incompletely. It will be charged full after releasing repeatedly.
- Don't charge in a wet room or with wet hands, as you may experience an electric shock.
- > Please be sure to charge after using, and charge fully before storing.
- Don't use it to spray corrosive liquids, coal, oil and other volatile liquid in order not to catch a fire or get any burns.
- It will harm persons and crop if the chemical liquid is mixed improper. Please read the introduction of pesticide before using it.
- It is prohibited to put the pesticide into other containers in order not to prevent any accidental consumption.
- In order to avoid incidents incurred by clinging to the pesticide, the operator must wear flange cap, fog-proof glasses, gauze mask, long gloves, and coat guarding against poisons, boots and some other protective clothing.
- After operating, the operator must wash the whole body with water and soap. In the meantime, the operator must wash eyes with clean water, and change clothes every day within the period of operation.
- Don't let the deposit or the water used for cleaning the machine flow into river, lake, pond, in order not to avoid pollution.
- > The machine should cleaned completely, be dried and charged fully after using, and then should be kept in a cool and windy place.

Part No	Part Name	Part No	Part Name
B-28	Shoulder Belt	B-61	Fan Style Spray Head
B-29	Fastening buckle	B-62	Charger
B-30	Hose Clamp (metal)	B-63	Motor with Pump
B-31	O Ring (Round Bar)	B-64	Spray head
B-32	Absorb pipe(for filter)	B-65	Trigger Assy
B-33	Pipe buckle Φ6 ~ Φ12		

#### PUMP DIAGRAM - KK-BBS-212/218





# KisanKraft®

## BATTERY SPRAYER KK-BBS-212/218/315/318

### PARTS LIST (BODY) - KK-BBS-212/218

Part No	Part Name	Part No	Part Name
B-1	Container Cap	B-34	Water Pipe (Plastic)
B-2	Air Intake Plug	B-35	Rubber Washer
B-3	Felt washer	B-36	Case nut (Water pipe)
B-4	Large filter	B-37	Absorb pipe
B-5	Round rod clamp	B-38	Little filter
B-6	Water tank	B-39	Hose
B-7	The belt for battery	B-40	Switch Handle
B-8	Lag/Battery Cover	B-41	Felt Washer
B-9	Battery seat	B-42	Switch Body
B-10	Left battery holder	B-43	Press Plate
B-11	Washer Φ 5	B-44	Switch Pin
B-12	Screw M5 x 12	B-45	Lock catch
B-13	Right battery holder	B-46	O-Ring 4. 4 x 1.8(Pressure Shaft)
B-14	Pump seat	B-47	Pressure shaft
B-15	Screw M5 x 8	B-48	Switch Felt Washer
B-16	Washer Φ 4	B-49	Washer seat
B-17	Nut M4	B-50	Spring (Trigger)
B-18	Power switch	B-51	Switch Nut Washer
B-19	Screw M4 x 16	B-52	Switch Nut
B-20	Battery	B-53	Split Sleeve
B-21	Pump board	B-54	Case nut(Round bar)
B-22	Screw M4x12	B-55	Round bar
B-23	The lines for recharging	B-56	Buy #64
B-24	Flashing	B-57	Buy #64
B-25	Belt pad	B-58	Buy #64
B-26	Washer Φ 6 Plain	B-59	Buy #64
B-27	Screw M5 x 10	B-60	F Style Spray Head

#### MAIN CONSTRUCTION

This machine mainly has five parts.

**The dissepiment pump**: It is the core part of this machine. It influences the property of the whole machine. The power of the machine comes from DC motor which keeps the membrane running. There is a press –control switch on the dissepiment pump, if the operating pressure exceeds the rated pressure, the pump power will be shut off automatically to protect the motor. The dissepiment pump connects with tank by pump holder.

**Battery**: The specification is DC12V7AH, fixed in the sprayer. The battery is held on the battery seat by the belt. The battery is charged by the charging-line combination, also the fuse on the charging-line combination protects the motor.

**Chemical Tank**: It is filled with liquids. The tank's design is based on the shape of the person's back, so it is comfortable to wear on the back.

**Spraying Part:** It accomplishes the spraying work. There is a clique core switch, non- omit and is easy to operate. To start working, turn on the power switch and press the handle switch, the pump will shut down automatically if the handle is released. If you repress the handle, it works again.

Knapsack system: It is composed of straps and pad used for wearing on the back

#### METHODS OF OPERATION

#### 1. Introduction to the function:

As shown in the figure, Control system is installed on one side of the cover: Voltmeter, Speed Regulator, Charging Plug and a Power Switch.

**Voltmeter** Indicate over-discharge, over-charge and normal service condition.

**Speed Regulator**: Adjust the rotating speed of the pump to make the pump work stably, achieving the result of spraying stabilization.

**Charging plug**: Linked with charger to transmit energy to the battery.

**Power switch**: Control the connection between the power and diaphragm pump.

**Under voltage protector (optional)**: Linked with speed regulator to protect the battery.

When the battery voltage reached the preset protecting voltage 9.5-10V, buzzer rings indicating that you should stop working to charge battery for maintenance



#### 2. Charging the Battery:



- The new machine must be charged before using.
- If a machine is stored for a long time, it must be charged before use.
- Charging with the special charger

: www.kisankraft.com

**2**: +91.80, 22178200

(\$): www.kisankraft.com

**2**: +91.80, 22178200

Page 22 of 32

Page 11 of 32

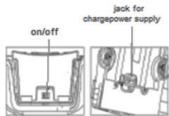


KisanKraft®

## BATTERY SPRAYER KK-BBS-212/218/315/318

Please untie the belt and back mat to disclose the battery completely. There are two plugs on the plate, one is connected to electric power, usually there is a plug connected to an electric pump to supply power, and the other jack is used to connect with the plug of the charger.

When charging, you only insert the output of the charger to the jack and then connect the input with 220V alternating current. The signal light on the charger is red during normal charging. It will change to green when it is fully charged.



The conditions for using the charger:

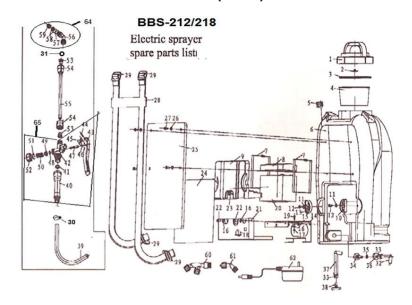
Standard Voltage
Input Frequency
Using Temperature
Storing Temperature
Using Place

AC100V~240V 50/60Hz +10°C~+30°C -10°C~+40°C Only inside



- The time of charging for the new machine or a machine stored for a long time must be 24 hours.
- ➤ Don't let the switch in the place of "—" while charging.
- Please pull out the wire of the charger from the jack after the charging is completed.
- An Improper battery wire connection will burn the battery and charger. The red wire should be connected with the red end of the battery.
- > Don't charge in a wet room or with wet hands, as it may cause an electric shock.
- Please use the special charger for this machine in order to avoid fire. In addition, it is prohibited to charge any other electrical machines with the special charger of this machine or as a power source.
- Please pull out the wire of the battery from the socket once the charging is completed.
- Don't let this machine exposed to the sun, high temperature conditions and the things radiating heat, which may lead to ageing of the battery, battery leakages, radiate heat, split and even fires.
- If you find the charger abnormal, pull out from the plug immediately in order to avoid electric shock, radiating heat and causing fires.
- Don't adopt generator as the electrical source of charging, which may destroy the charger. Don't pull the wire off the charger forcibly.
- Please clean the electrical pick off of the battery with dry cloth. Bad connection will cut the power supply or may result in charge failure.

# SPRAYER DIAGRAM & PARTS LIST PARTS DIAGRAM (BODY)-KK-BBS-212/218



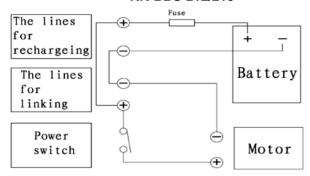


# KisanKraft®

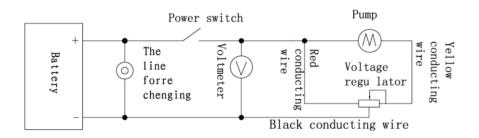
## BATTERY SPRAYER KK-BBS-212/218/315/318

#### **ELECTRICAL CIRCUIT DIAGRAM**

#### KK-BBS-212/218



#### KK-BBS-315/318



Be sure of the safety, please store this machine in place out of reach of children and infant in order to avoid an electric shock.

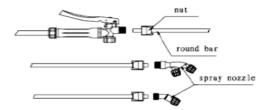


If the battery of this machine needs to be replaced, it must be confirmed by the company. The disabled battery couldn't be thrown away anywhere. Please send it into the proper recycle centre which can deal with it.

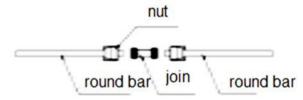
#### 3. Connection of the spraying parts:

- a) Fix the spraying pole in the place as shown in the figures.
- Insert the spraying pole into the switch and fasten the screw cap.

  Caution: Don't fasten the nut with the pliers, or it may harm the nut.
- c) Hold the knob assembly with one hand and adjust the direction of the nozzle by holding the spraying head with the other hand.



 d) If you want to spray higher, you could connect two spraying poles, which will increase the total length.



 This machine has three different kinds of nozzles. You could use the nozzle according to different conditions.

Model of the Nozzle	Diameter of the Nozzle (mm)	Flow (L/min)	Working Pressure (MPa)	The amount of Nozzle
Taper Nozzle	1.0	0.8	0.15~0.35	1
Sector Nozzle	0.7	0.48	0.15~0.4	1
F Nozzle	1.5	1.2	0.15~0.25	2

**Note**: The data in the table is the trial value of our company and not the confirmed value. The amount of spraying mist and working pressure may change with the environment.

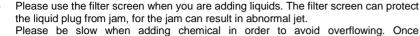
#### 4. Add Liquids

a) Please keep this machine on the actinic ground when adding liquids.





## BATTERY SPRAYER KK-BBS-212/218/315/318



e) Please be slow when adding chemical in order to avoid overflowing. Once overflowed, please wipe it dry and clean with gauze so that the chemical doesn't flow into the battery and electric pump. The chemical liquids, can corrupt the electric equipment and shorten the life of this machine.

d) It is strictly prohibited to use solvent easy to curdle when meeting heat for the heat generated by the working of liquid pump is easy to curdle that solvent so that the liquid pump doesn't work.

#### Note:

Please make sure that the switch of electric power is open before adding the chemical.

There is a scale on the side of chemical tank, please add chemical liquid according to the quantity of work.

> It is strictly forbidden to spray highly acid liquid, paint and volatile chemical solvents.

#### Warning:

Please follow the chemical solvent recommended by the manufacturer to mix chemical liquid, or it will harm crops and body.

Be sure to mix the chemical liquids in proper proportion in other containers. The filter must be used when filling the chemical liquids into the chemical tank.

Please fasten the chemical cap after filling is completed.

#### 5. Misting

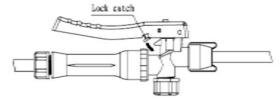
**Warning**: Be sure to check the battery after adding water into the chemical tank.

The liquid pump must avoid idler revolutions in order not to harm it.

#### Starting

Adjust the switch to the "-". Grasp the handlebar, open the check valve and then spray. **Stopping:** 

- Adjust the switch to "o", the liquid pump will stop.
- > Release the handlebar to stop the operation.



When the charge in the battery is low, the water flow will gradually reduce, indicating a recharge. The battery doesn't have to drain completely to recharge each time, it can be recharged at any moment and even can saturate, which doesn't affect its life.

After spraying, expel out the remaining liquid, wash the inside wall of the chemical container with clean water. Then add clean water into the chemical tank, start liquid pump, rotate for 2~3 minutes. Make sure that the spraying pipe, inside the pump and the nozzle are washed clean, then swill the liquid in the chemical tank. Then, restart the liquid pump to expel out the remaining liquid completely. After that, the power switch is adjusted to place "0".



Don't allow the remaining chemical liquids and the water used for washing the machine flow into rivers, lakes, ponds or cloacae in order avoid pollution.Please deal with it innoxiously

#### b) Maintenance of the battery:

In the course of operation, one should understand the frequency and duration of charge according to the actual condition and referring to usual spray frequency and time. It's better to charge when the battery discharged to 60%--70%, the average charging time is about 8 hours. Longer charging time may cause the battery to lose water, hot and reduce the life.

Never stock the battery without power. If it happens so and you couldn't recharge the battery on time, it will easily get vitriolized to lead sulphate crystal, which jams the path of the electrical ions, and make the power insufficient. Also the capacity of the battery will get reduced. If the battery is without power for a long time, serious damage will be caused. Therefore, even if you are not using the battery for a short period, should charge it once in a month, so as to keep the battery in a good situation.



- It is normal that the charger is little hot while charging.
- Overcharge or over discharge will reduce the life of the battery remarkably.
- Don't connect the battery directly, or it will harm the safety of the battery.

Never try to disassemble and assemble the battery. The battery has the protection equipment and if you alter it, it will make the battery hot and split.

Don't connect the anode and cathode of the battery with any metallic material.

Don't transport battery with a metallic material, which will make the battery leak, hot and split.

The light on the charger will turn on if you recharge immediately after charging is over, it becomes normal. But this will result in overcharge and you should avoid the operation.

Don't throw the battery into the fire or heat it up, or it will make the battery split and electrolyte splashed.

### c) Replace the fuse:

In order to protect the wire and electrical machine, this machine is equipped with a fuse. If a blowout happens due to any reason, please unplug the right and left fixed equipment, take out the assembly of battery, lax the packing belt, remove the battery, open the cap of fuse to replace the damaged fuse with a new one. In addition, please find out the cause of the blowout and find a remedy for it. After this, you could operate it once again. Some causes of blowout:

- > The charger doesn't coincide with the battery or has any other trouble.
- The pesticide got stuck to the liquid pump.
- The wire is short circuited due to the damage.
- Incorrect connection.





## **BATTERY SPRAYER** KK-BBS-212/218/315/318

#### MAINTENANCE AND STORAGE

#### **Daily maintenance:**

The following maintenance should be done after daily job.

- 1. Cleaning the oil and dust on the surface of the machine.
- 2. Clean the chemical tank with clean water and wipe it dry.
- Check if there is any leakage of water or fuel. If there is a leakage remedy procedures are to be taken.
- Check to see if the screws are loose or lost. If so, please tighten the screw or
- The battery must be charged before storage. Charge before every use in case of power shortage.
- The machine after maintenance should be stored in a place which is dry and has good ventilation. It must be far away from any fire source and sunlight.

#### Long term Storage:

The machine which is to be stored t for a long time should be maintained as follows:

- Clean the machine surface carefully.
- Discard any medicine in the tank and the pump, clean them with clean water.
- The battery must be charged before storage. If stored for a long time, it should be charged every two months.
- All the plastic parts must neither be exposed to the sunlight nor pressed by heavy
- Cover the machine with plastic dustcoat and store in a dry and clean place.

#### Cleaning

- Clean chemical container
  - Discard remaining chemical liquid and wash it thoroughly. Fill one litre of water into the chemical tank and then rinse it slightly.
- Clean the inside liquid pump
  - After cleaning the chemical tank, fill with clean water again and start liquid pump to mist so as to clean the whole pipeline.
- Clean the filter net
- Clean the filter net in the mouth of the chemical tank.
- Clean the filter net of suction inside the chemical tank. There is a filter net of suction at the bottom of the chemical tank to avoid the dust coming from the filter net of the mouth of the chemical tank to be sucked into the liquid pump. The filter of the suction is jammed to spray abnormally and will infect the liquid pump greatly. So please take out the filter of suction to clean carefully after operating. Fix it carefully after cleaning.



#### TECHNICAL SPECIFICATION

Name	Specification				
Product name	Battery Sprayer				
Model	KK-BBS-212	KK-BBS-218 KK-BBS-318		KK-BBS-315	
Net Weight(kg)	5.6	6.4	6.6	6.2	
Capacity of Chemical Tank(L)	12	18		15	
Overall Dimensions(cm)	35X23X52.5	38X26X57.5		37x24x55	
Max Flow(L/min)		0.8 (sir	ngle nozzle)		
Battery		DC <sup>2</sup>	12V .7AH		
Pump		DC12\	/. (1∼2) A		
Charger		Input 100V~240	V, Output 12V, 1.2	Α	
Lasting Working Time(h)	N/A		3^	~5	
Under voltage Protection (V)	N/A		9.5~10.5		
Mode of speed regulation	N	//A	Step less spe	ed regulating	



# KisanKraft<sup>®</sup>

## BATTERY SPRAYER KK-BBS-212/218/315/318

## **TROUBLESHOOTING**

Abnormal misting					
Problem		Cause	Remedy		
The motor does Not work		The power switch is in "0"	Switch to "— "		
		The plug is lax	Reconnection		
		The Switch got damaged	Replace the switch		
		The Line is cut off	Replace the line or Reconnect it		
		Fuse got melted	Replace the fuse		
		The motor is cut out	Replace the motor		
		The motor is burned to damage	Replace the motor		
		The voltage of the battery is low	Charge or replace the battery		
		High pressure on pipe	Open the handle Switch		
		The pressure switch is not effective	Replace pressure switch		
The motor is running	No spraying	The nozzle got clogged/blocked	Clean the nozzle		
		No medicine liquid in the tank	Fill chemical Liquids		
		The air valve of the chemical tank lid got clogged	Clean the air valve		
		Pump valve got clogged	Clean the pump valve		
		The absorbing filter got jammed	Clean the filter		
		The nut on the pressure switch is loose	Tighten the nut		
		Pump valve got jammed	Clean the pump valve		
		Pressure spring is not effective	Replace the pressure spring		
		The diaphragm is not effective	Replace the diaphragm		
	The pressure does not increase	Pump valve got clogged	Clean the pump valve		
		The adjusting valve of pressure got jammed	Clean the valve		
		Inlet nozzle on the tank lid got jammed	Clean the nozzle		
		The motor is abnormal	Replace the motor		
		Spout wear	Replace		
		The pressure switch is not effective	Replace the pressure switch		

Abnormal misting				
Problem		Cause	Remedy	
		The tube is jammed or out of shape	Cleaning or tidying up	
		Pressure nut is loose	Tighten the nut	
		Pressure spring is not effective	Replace the pressure switch	
		Low voltage	Charge or replace the battery	
Charge abnormally				
Cannot charge		The battery is abnormal	Replace the battery	
		The charger is abnormal	Replace the charger	
		Connection line is bad	Reconnection	
		Line turned off	Replace or repair the line	
The capacity of the		Time for charge is not enough	Keep on charging	
Accumulator can		The battery is abnormal	Replace the battery	
Not recover		The charger is abnormal	Replace the charger	
Fuse got melted				
The motor do	oes not	The pressure switch is not effective	Replace the pressure switch	
Work		The switch is not connected well	Replace the switch	
		Motor runs heavily	Replace the motor	

💲: www.kisankraft.com

⊠: info@kisankraft.com

**2**: +91.80. 22178200

: www.kisankraft.com

⊠: info@kisankraft.com

**2**: +91.80. 22178200

Page 16 of 32 Page 17 of 32