

**Important:** (1) Normal maintenance and adjustments to the product is the responsibility 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.

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**Receipt is required for availing warranty services**

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

### Our Products

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

**This warranty is null & void, if you fail to register the warranty with KisanKraft by sending the KisanKraft Copy with dealer's stamp.**

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

🌐: www.kisankraft.com    ✉: info@kisankraft.com    ☎: +91.80. 22178200

|  |   |  |  |
|--|---|--|--|
| Product                                    | <b>Portable Pressure Wash Sprayer</b>   | KisanKraft Invoice Date  |  |
| Brand                                      | <b>KisanKraft</b>   | KisanKraft Invoice No.   |  |
| Model                                      | <input type="checkbox"/> KK-PWCB-90, <input type="checkbox"/> KK-PWCB-105, <input type="checkbox"/> KK-PWCB-130<br><input type="checkbox"/> KK-PWIN-135, <input type="checkbox"/> KK-PWIN-165, <input type="checkbox"/> KK-PWIM-007<br><input type="checkbox"/> KK-PWIM-110 |  |  |
| <b>WARRANTY PERIOD</b>                     | <b>6 MONTHS</b>   | 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.):                                      |  |
| Buyer's Sign                               |   | Dealer's Sign  |  |

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| Brand                                      | <b>KisanKraft</b>   | KisanKraft Invoice No.   |  |
| Model                                      | <input type="checkbox"/> KK-PWCB-90, <input type="checkbox"/> KK-PWCB-105, <input type="checkbox"/> KK-PWCB-130<br><input type="checkbox"/> KK-PWIN-135, <input type="checkbox"/> KK-PWIN-165, <input type="checkbox"/> KK-PWIM-007<br><input type="checkbox"/> KK-PWIM-110 |  |  |
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| Dealer's Invoice Date                      |   | Dealer's Invoice No.   |  |
| Buyer's Info (Name, Address, Phone, etc.): |   | Dealer's Stamp (Address, Phone, TIN, etc.):                                      |  |
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For more information give **MISSED CALL: 07676065555**



Many of our products have BIS: ISI certification.



**Portable Pressure Wash Sprayer**

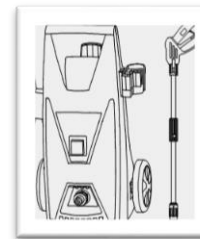
KK-PWCB-90/105/130 (Carbon Brush Motor)

KK-PWIN-135/165 (Induction Motor)

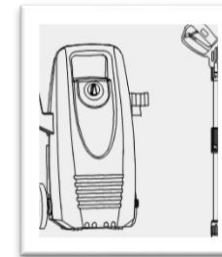
KK-PWIM-007/110 (Induction Motor)

**User Manual**

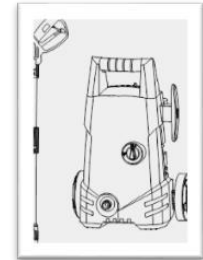
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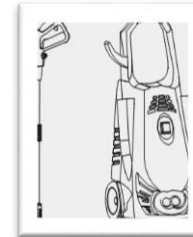
**KK-PWCB-130**



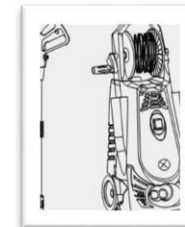
**KK-PWCB-90**



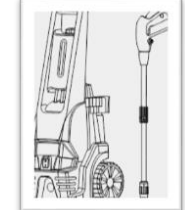
**KK-PWIN-135**



**KK-PWIN-165**



**KK-PWIM-110**



**We recommend the use of a VOLTAGE STABILIZER for safety and longer life of the product**

**KisanKraft Limited**

(Formerly known as KisanKraft Machine Tools Pvt Ltd)

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 ◆

◆ Guwahati ◆ Shimla ◆ Hubli ◆ Hyderabad ◆ Jaipur ◆

◆ Karnal ◆ Kolkata ◆ Lucknow ◆ Pune ◆ Raipur ◆

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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> |
|---|--|



**Portable Pressure Spray Washer**  
 KK-PWCB-90/105/130 (Carbon Brush Motor)  
 KK-PWIN-135/165 (Induction Motor)  
 KK-PWIM-007/110 (Induction Motor)

| Part No | Part Name<br>(KK-PWCB-105/130) | Part No | Part Name<br>(KK-PWCB-105/130) |
|---------|--------------------------------|---------|--------------------------------|
| 20      | Screw Internal Hexagonal M6x35 | 51      | Plunger Follower               |
| 21      | O-Ring 18x2.4                  | 52      | Thrust Ball Bearings 51107b    |
| 22      | Water Inlet Joint              | 53      | Screw Internal Hexagonal M8x20 |
| 23      | Strainer                       | 54      | Bearings Seat                  |
| 24      | Buy # 31micro Switch Assy      | 55      | Bearings 6302                  |
| 25      | Buy # 31micro Switch Assy      | 56      | Seal                           |
| 26      | Buy # 31micro Switch Assy      | 57      | Connecting Base                |
| 27      | Buy # 31micro Switch Assy      | 58      | Gear shaft                     |
| 28      | O-Ring O 22x1.9                | 59      | Big Gear                       |
| 29      | Buy # 31micro Switch Assy      | 60      | Bearing 629                    |
| 30      | Buy # 31micro Switch Assy      | 61      | O Ring 88x1.9                  |
| 31      | Micro Switch Assy              | 62      | Motor                          |



**Warranty Certificate**  
 (CUSTOMER COPY)

|  |   |  |  |
|--|---|--|--|
| Product                                    | Portable Pressure Wash Sprayer  | KisanKraft Invoice Date  |  |
| Brand                                      | <b>KisanKraft</b>   | KisanKraft Invoice No.   |  |
| Model                                      | <input type="checkbox"/> KK-PWCB-90, <input type="checkbox"/> KK-PWCB-105, <input type="checkbox"/> KK-PWCB-130<br><input type="checkbox"/> KK-PWIN-135, <input type="checkbox"/> KK-PWIN-165, <input type="checkbox"/> KK-PWIM-007<br><input type="checkbox"/> KK-PWIM-110 |  |  |
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☎: +91.80. 22178200

| Part No | Part Name (KK-PWCB-105/130)    | Part No | Part Name (KK-PWCB-105/130)           |
|---------|--------------------------------|---------|---------------------------------------|
| 1       | Water Outlet Joint             | 32      | Screw Internal Hexagonal M6x25/ M6x35 |
| 2       | Spring 0.6x10.5x4.5x12         | 33      | Spring Washer 6                       |
| 3       | O-Ring 22x2.4                  | 34      | Pump                                  |
| 4       | Buy -# 6,7,8-Valve Core Assy   | 35      | O-Ring 58x2.65                        |
| 5       | O-Ring 5x1.8                   | 36      | O-Ring 10x1.5                         |
| 6       |                                | 37      | Inlet & Outlet Valve Assy             |
| 7       | Valve Core Assy                | 38      |                                       |
| 8       |                                | 39      |                                       |
| 9       | O-Ring 4.5x1.8                 | 40      |                                       |
| 10      | O-Ring 16x2.4                  | 41      | O-Ring 12x1.9                         |
| 11      | Piston                         | 42      | Inlet & Outlet Valve Cap              |
| 12      | Piston Spring                  | 43      | Y-Ring 12x20x5                        |
| 13      | Piston Seat                    | 44      | O-Ring O 24x1.9                       |
| 14      | O-Ring 5.6x1.8                 | 45      | Middle Sets                           |
| 15      | O-Ring 12x1.8                  | 46      | O-Ring O 16x1.9                       |
| 16      | Valve Seat                     | 47      | In The Interval Sets                  |
| 17      | Pump Head                      | 48      | Skeleton Seal 12x20x4                 |
| 18      | Screw Internal Hexagonal M6x25 | 49      | Plunger Spring                        |
| 19      | Spring Washer 6                | 50      | Plunger                               |

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- **Risks of explosion**-Do not spray flammable liquids. Never spray flammable liquids or use pressure washer in areas containing combustible dust, liquids or vapors.
- Never operate the machine in a closed building or in or near an explosive environment.
- To ensure machine safety, use only original spare parts from the manufacturer or approved by the manufacturer.
- Water that has flown through backflow Preventers is considered not drinkable.
- The machine must be disconnected from its power source by removing the plug from the socket-outlet during cleaning or maintenance and when replacing the machine to another function.
- Observe a distance of at least 30cm when using the jet to clean painted surfaces to avoid damaging paintwork.
- Do not use the machine if a supply cord or important parts of the machine are damaged, e.g. safety devices, high pressure hoses, trigger gun.
- If an extension cord is used, the plug and socket must be of watertight construction.
- Inadequate extension cords can be dangerous.
- To ensure the machine safety, please only use original spare parts (including nozzle) from the manufacturer or approved by the manufacturer. Do not use the machine before you changed them if they are damaged.
- Be careful of the danger of the kickback force on the spray assembly when opening the trigger gun and grasp the gun with hands firmly.
- To reduce the risk of injury, close supervision is necessary when a machine is used near children. High-pressure cleaner shall not be used by children or untrained person.



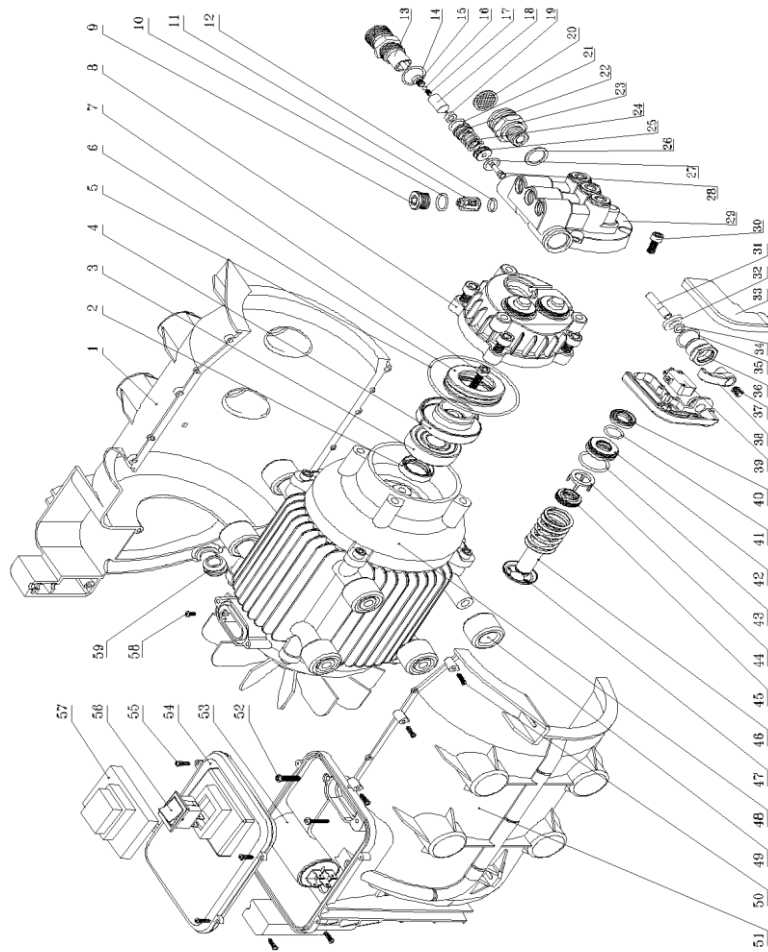
The machine is not intended to be connected to the potable (drinking) water mains.

- Know how to stop the machine and bleed pressures quickly. Be thoroughly familiar with the controls.
- Stay alert and watch what you are doing.
- Do not operate the machine when fatigued or under the influence of alcohol or drugs.
- Keep operating area clear of all persons.
- Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- Follow the maintenance instructions specified in the manual.
- This machine must be grounded. If it has malfunctioned or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances. The rated voltage (V/Hz) of the machine has to be in compliance with the local power supplying voltage.
- Check with a qualified electrician or service personnel if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the machine. If it will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use any type of adapter with this machine.
- To reduce the risk of electrocution, don't start and run the machine in the rain or storm. Keep all connections dry and off the ground. Do not touch the plug with wet hands. It is strictly prohibited to let water leak into the machine.

| Part No | Part Name (KK-PWIN-165)   | Part No | Part Name (KK-PWIN-165)      |
|---------|---------------------------|---------|------------------------------|
| 4       | Bearing Housing           | 34      |                              |
| 5       | O-Ring 81.5x1.5           | 35      |                              |
| 6       | Bearing                   | 36      |                              |
| 7       | Bolt 8x20 (Allen)         | 37      |                              |
| 8       | Pump Body                 | 38      |                              |
| 9       | In/Out Valve Cap          | 39      |                              |
| 10      | O-Ring 13x1.9             | 40      | V-Ring                       |
| 11      | Valve, Water Inlet/Outlet | 41      | O-Ring 12x1.8                |
| 12      | O-Ring                    | 42      | Interspace Ringer            |
| 13      | Water Outlet Joint        | 43      | O-Ring                       |
| 14      | O-Ring 22x2.4             | 44      | Interspace Separating Ringer |
| 15      | Valve Core Assy           | 45      | Reinforced Seal              |
| 16      |                           | 46      | Plunger & Spring             |
| 17      |                           | 47      | Plunger Clip                 |
| 18      |                           | 48      | Motor                        |
| 19      |                           | 49      | Orientation Ring             |
| 20      | Filter                    | 50      | Self-Acting Screw            |
| 21      | O-Ring 18x2.4             | 51      | Right Motor Cover            |
| 22      | Piston                    | 52      | Screw                        |
| 23      | Joint Water Inlet         | 53      | Capacitor                    |
| 24      | Spring                    | 54      | Connection Box               |
| 25      | Handspike                 | 55      | Self-Acting Screw            |
| 26      | O-Ring 15x2.4             | 56      | Switch                       |
| 27      | O-Ring                    | 57      | Switch Cover                 |
| 28      | Core Load Release Valve   | 58      | Grounding Screw              |
| 29      | Pump Head                 | 59      | Power Cord Jacket            |
| 30      | Screw Internal Hexagonal  |         |                              |



### KK-PWIN-165



| Part No | Part Name (KK-PWIN-165) | Part No | Part Name (KK-PWIN-165) |
|---------|-------------------------|---------|-------------------------|
| 1       | Left Motor Cover        | 31      | Pressure Switch Assy    |
| 2       | Frame Oil Seal          | 32      |                         |
| 3       | Bearing                 | 33      |                         |

- Use only 3-wire extension cords that have 3-prong grounding-type plugs and 3-pole cord connectors that accept the plug from the machine. Use only extension cords that are intended for outdoor use and the socket must be of watertight construction. These extension cords are identified by a marking "Acceptable for use with outdoor machines; store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the machine. Do not use damaged extension cords. Examine extension cord before using and replace if damaged. Inadequate extension cords can be dangerous. Do not abuse extension cord and do not pull on any cord to disconnect. Keep cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the machine from the extension cord.
- When the machine is turned on, the interior pumps start and continue to run even if the pressure wand trigger has not been depressed. Running the machine for more than 3 minutes without depressing the pressure wand trigger could cause heat damage to the motor and pumps, Please do not leave the machine running unattended or unused for more than 3 minutes.
- When the machine is running, please maintain a constant water supply. Without water circulation, the sealing rings of the machine may get damaged.
- It is necessary to turn on the spray lance within one or two minutes after the machine has been started. Otherwise, the temperature of the circulating water within the machine will soon rise to a critical point, which will cause damage to the sealing rings inside the machine.
- Don't start and run the machine in a place excessively cold so as to prevent the machine from the freezing current
- This machine has been designed for only using clean water, do not use corrosive chemicals.
- Use cleaning agent supplied or recommend by the manufacturer.
- High-pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, animals, live electrical equipment or the machine itself. Pressure washers should not be pointed at tire walls, as it may be possible to damage them.



Do not direct the jet against yourself or others in order to clean clothes or footwear

- Disconnect from the electrical power supply before carrying out user maintenance. If the mains cable is damaged it must be replaced by the manufacturer, or its service agent or similarly qualified person to avoid a hazard.
- Do not use the machine if a supply cord or important parts are damaged, e.g. safety devices, high pressure hoses, trigger gun.
- Be aware of the recoil caused by the water jet when the machine is switched on.
- When the machine is moving and installing, the machine must be flat. When moving the machine, pull the handle to move it.

- Connect to the water supply: The machines are not suitable for connection to portable water mains. Connect the machine to the water supply. (It can be a water container). Make sure the inlet water pressure keeps between 0.01MPa and 0.4MPa. Do not use the pipe if the pipe is damaged. If you want to connect this machine to portable water mains, you must install a backflow preventer in the water pipe to prevent dirty water flow back to the drinking water system. The backflow preventer shall comply with EN 60335-2-79 ANNEX AA.
- Meaning of crossed –out wheeled dustbin:

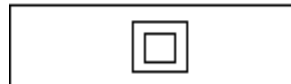


Do not dispose of electrical machines as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical machines are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

- The motor of this pressure washer will NOT run unless the trigger is squeezed.
- Ensure safety devices are operating properly before using the machine. DO NOT remove or modify any part of the gun or unit of the machine
- Know how to stop this machine and bleed pressure quickly. Be thoroughly familiar with the controls.
- Only put the machine on stable place when using, transportation, assembly, dismantling. Do not rough handling the machine when transportation.
- In any event of accident (e.g. contact with detergents, rinse with an abundance of clean water), please always switch off the machine and pull out the plug from socket outlet, and Disconnect the connection with water
- Always wear safety glasses or goggles and protective clothing when operating or performing maintenance.
- Never put hand or fingers over the spray tip while operating the unit.
- Never try to stop or deflect leaks with any body part.
- Always engage the trigger safety latch in the safe position even when spraying is stopped for a moment.
- Always follow detergent manufacturer’s label recommendations for proper use of detergents. Always protect eyes, skin, and respiratory system from detergent use.

**Servicing of a double-insulated machine:**

In a double-insulated machine, two systems of insulation are provided instead of grounding. No grounding means are provided for a double-insulated machine, nor should grounding means be added to the machine. Servicing a double-insulated machine requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated machine must be identical to the original parts. A double-insulated machine is marked with the words “Double Insulation ”or “Double Insulated.” Machine may also be marked with symbol shown in Figure 1



**Double Insulated Symbol**

| Part No | Part Name (KK-PWIN-135)               | Part No | Part Name (KK-PWIN-135) |
|---------|---------------------------------------|---------|-------------------------|
| 31      | Micro Switch Assy                     | 66      | Switch                  |
| 32      | Screw Internal Hexagonal M6x25/ M6x35 | 67      | Switch Cover            |
| 33      | Spring Washer 6                       | 68      | Grounding Screw         |
| 34      | Pump                                  | 69      | Power Cord Jacket       |
| 35      | O-Ring 58x2.65                        |         |                         |

| Part No | Part Name (KK-PWIN-135)        | Part No | Part Name (KK-PWIN-135)        |
|---------|--------------------------------|---------|--------------------------------|
| 1       | Water Outlet Joint             | 36      | O-Ring 10x1.5                  |
| 2       | Spring 0.6x10.5x4.5x12         | 37      | Inlet & Outlet Valve Assy      |
| 3       | O-Ring 22x2.4                  | 38      |                                |
| 4       | Buy -# 6,7,8-Valve Core Assy   | 39      |                                |
| 5       | O-Ring 5x1.8                   | 40      |                                |
| 6       | Valve Core Assy                | 41      |                                |
| 7       |                                | 42      | Inlet & Outlet Valve Cap       |
| 8       |                                | 43      | Y-Right 12x20x5                |
| 9       | O-Ring 4.5x1.8                 | 44      | O-Ring O 24x1.9                |
| 10      | O-Ring 16x2.4                  | 45      | Middle Sets                    |
| 11      | Piston                         | 46      | O-Ring O 16x1.9                |
| 12      | Piston Spring                  | 47      | In The Interval Sets           |
| 13      | Piston Seat                    | 48      | Skeleton Seal 12x20x4          |
| 14      | O-Ring 5.6x1.8                 | 49      | Plunger Spring                 |
| 15      | O-Ring 12x1.8                  | 50      | Plunger                        |
| 16      | Valve Seat                     | 51      | Plunger Follower               |
| 17      | Pump Head                      | 52      | Thrust Ball Bearings 51107b    |
| 18      | Screw Internal Hexagonal M6x25 | 53      | Screw Internal Hexagonal M8x20 |
| 19      | Spring Washer 6                | 54      | Bearings Seat                  |
| 20      | Screw Internal Hexagonal M6x35 | 55      | Left Motor Cover               |
| 21      | O-Ring 18x2.4                  | 56      | Frame Oil Seal                 |
| 22      | Water Inlet Joint              | 57      | Bearing                        |
| 23      | Strainer                       | 58      | Motor                          |
| 24      | Buy # 31micro Switch Assy      | 59      | Orientation Ring               |
| 25      | Buy # 31micro Switch Assy      | 60      | Self-Acting Screw              |
| 26      | Buy # 31micro Switch Assy      | 61      | Right Motor Cover              |
| 27      | Buy # 31micro Switch Assy      | 62      | Screw                          |
| 28      | O-Ring O 22x1.9                | 63      | Capacitor                      |
| 29      | Buy # 31micro Switch Assy      | 64      | Connection Box                 |
| 30      | Buy # 31micro Switch Assy      | 65      | Self-Acting Screw              |

- Do not use pressure that exceeds the operating pressure of any of the parts (hoses, fittings, etc.) in the pressurized system. Ensure all equipment and accessories are rated to withstand the maximum working pressure of the unit.

**Do not spray on electrical apparatus and wiring:**

- Never disconnect the high pressure discharge hose from the machine while the system is pressurized. To depressurize machine, turn power and water supply off, then press gun trigger 2~3 times.
- Never permanently engage the trigger mechanism on the gun.
- Never operate the machine without all components properly connected to the machine (handle, gun/wand assembly, nozzle, etc.).

**Equipment damage.**

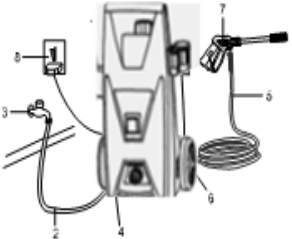
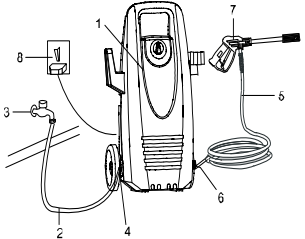
- ALWAYS turn water supply "ON" before turning pressure washer "ON." Running pump dry causes serious damage.
- Do not operate the pressure washer with the inlet water screen removed. Keep screen clear of debris and sediment.
- NEVER operate pressure washer with broken or missing parts. Check equipment regularly and repair or replace worn or damaged parts immediately.
- Use only the nozzle supplied with this machine.
- Never leave the wand unattended while the machine is running.
- Never attempt to alter factory settings. Altering factory settings could damage the unit and will void the warranty.
- Always hold gun and wand firmly when starting and operating the machine.
- NEVER allow the unit to run with the trigger released (off) for more than one (1) minute. Resulting heat buildup will damage pump.
- Pressure washer is not supposed to pump hot water. NEVER connect it to a hot water supply as it will significantly reduce the life of the pump.
- NEVER store the pressure washer outdoors or where it could freeze. The pump will be seriously damaged.
- Release trigger when changing from high to low pressure modes. Failure to do so could result in damage.
- Be aware of the recoil caused by the water jet when the machine is switched on.

**Extension Cords**

The use of an extension cord is not recommended. Use only extension cords intended for outdoor use. These are identified by the mark "Acceptable for use with outdoor machines; store indoors while not in use." Use only extension cords having an electrical rating equal to or more than the rating of the machine. Do not use damaged extension cords. Examine extension cord before using and replace it if damaged. Do not abuse extension cord. Do not pull on the cord to disconnect. Keep cord away from heat and sharp edges.

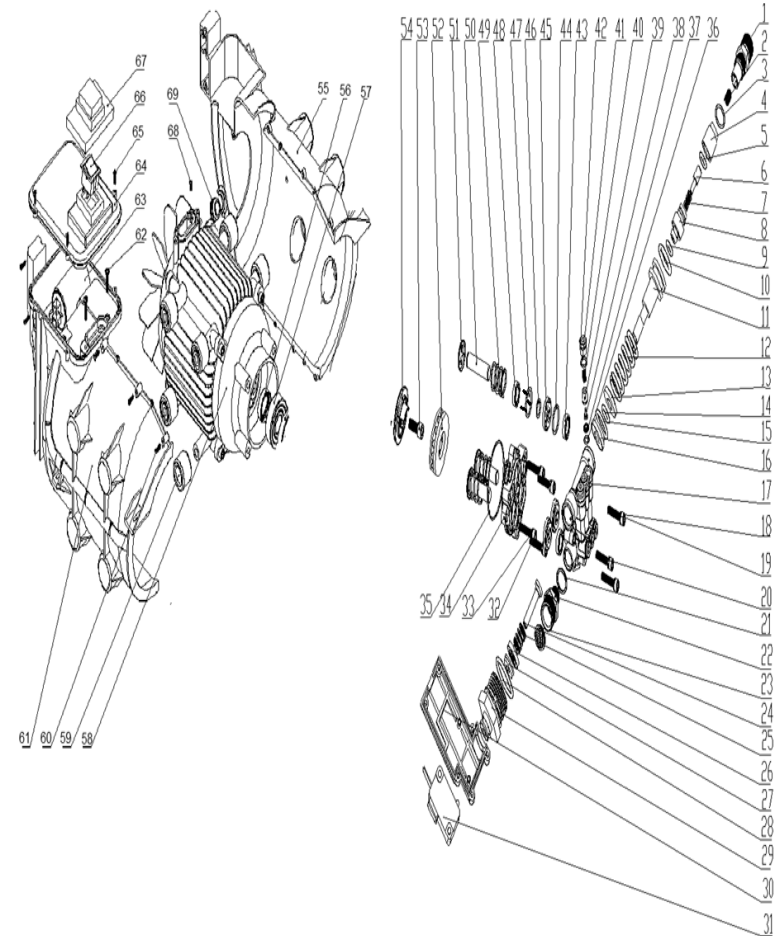
Always disconnect cord from receptacle before disconnecting machine from extension cord.

**Overview (Carbon Brush Motor)**

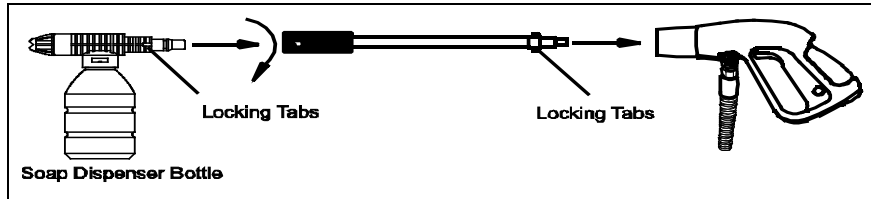
| KK-PWCB-105   | KK-PWCB-130   |
|---|---|
|  <ol style="list-style-type: none"> <li>1. Pressure cleaner</li> <li>2. Water supply hose</li> <li>3. Water connection</li> <li>4. Water inlet</li> <li>5. High pressure tubing</li> <li>6. Water outlet</li> <li>7. Spray gun</li> <li>8. Power supply</li> <li>9. Switch</li> </ol> <p>(* No. 2, 3, 8 are not included in box)</p> |  <ol style="list-style-type: none"> <li>1. Pressure cleaner</li> <li>2. Water supply hose</li> <li>3. Water connection</li> <li>4. Water inlet</li> <li>5. High pressure tubing</li> <li>6. Water outlet</li> <li>7. Spray gun</li> <li>8. Power supply</li> <li>9. Switch</li> </ol> <p>(* No. 2, 3, 8 are not included in box)</p> |

**Parts Diagram & List**

**KK-PWIN-135**



**ATTACHING SOAP DISPENSER BOTTLE**



If you want to use soap dispenser bottle, you should use the adaptor. Connect the screw thread end of the adaptor with the gun by putting and twisting in a clockwise motion. Insert end of soap dispenser bottle with the plastic locking tabs into the opening of the spray lance. Push in, turn, and turn, and lock the soap dispenser bottle and spray lances are firmly secure.

**Inspection & Maintenance**

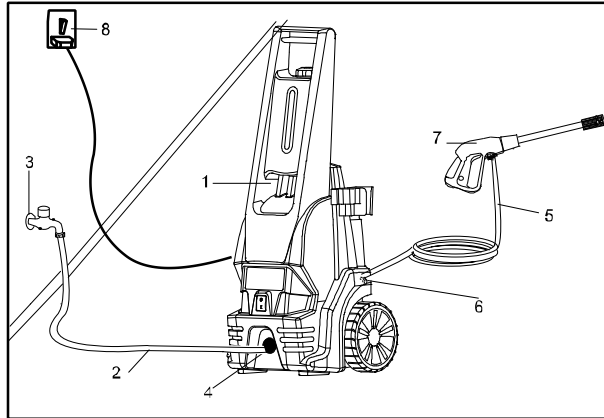
1. For safe use, make sure to clean the machine once in every three months. Before working, inspect the filter and the nozzle; make sure there is no impurity. After working, make sure there is no water in the pump and the hose.
2. If the machine needs to be repaired in the guarantee period, please return the machine to the shop. You need to provide the certificate of purchase in order to get it repaired.
3. Before packaging, the machine should be cleaned, then use closed packaging, packaging should be firm. Store the machine in a dry place.
4. For safe transportation, the machine should comply with ISTA.

**Overview (Induction Motor)**

| KK-PWIN-135  | KK-PWIN-165   | KK-PWIM-110   |
|--|---|---|
| <ol style="list-style-type: none"> <li>1. High pressure washer</li> <li>2. On/off switch</li> <li>3. Mobile adapter bracket with wheel</li> <li>4. Water outlet</li> <li>5. Water inlet</li> <li>6. Gun</li> </ol> | <ol style="list-style-type: none"> <li>1. High pressure washer</li> <li>2. On/off switch</li> <li>3. Mobile adapter bracket with wheel</li> <li>4. Water outlet</li> <li>5. Water inlet</li> <li>6. Gun</li> <li>7. Hose Reel with Trigger Gun Hose</li> <li>8. Hose Reel Handle</li> </ol> | <ol style="list-style-type: none"> <li>1. High pressure washer</li> <li>2. On/off switch</li> <li>3. Water inlet</li> <li>4. Mobile adapter bracket with wheel</li> <li>5. Water outlet</li> <li>6. Gun holder</li> <li>7. Soap tank</li> <li>8. Gun</li> <li>9. Adjustable Spray Wand</li> </ol> |

**Installation, Electrical and Water Connections**

**KK-PWIM-110**



- |                                    |                                |
|------------------------------------|--------------------------------|
| 1. Pressure cleaner                | 5. High pressure tube          |
| 2. Water supply hose(not included) | 6. High-pressure, water outlet |
| 3. Water connection                | 7. Spray gun                   |
| 4. Water inlet                     | 8. Power supply                |

| Symptom  | Probable Cause  | Remedy  |
|--|---|---|
|  | Unloader valve is stuck.  | Clear or replace valves.  |
|  | Lance nozzle incorrect or worn out.                             | Loosen and re-tighten regulation screw.<br>Check and/or replace the Lance nozzle.     |
| No detergent suction (in units with detergent tank)  | Lance nozzle is not in low pressure                             | Slide lance nozzle in low pressure position.  |
|  | High pressure extension hose or high pressure hose is too long. | Remove high pressure extension hose or use a high pressure hose shorter than 25-feet. |
|  | Injector clogged on the pump.                                   | Contact the dealer.   |
| No detergent suction (in units with attachable tank) | Detergent applicator is clogged.                                | Clean applicator with warm water or replace applicator.<br>Replace applicator.        |
| The unit begins to smoke                             | Overheated, overloaded or damaged motor.                        | Turn off the unit, and take it to the dealer.   |

**Long Term Storage**

The machine should be stored in a frost-free environment. After long-term storage without operation, it is possible to form scales inside the machine making it hard to start again. In such conditions, it is recommended to turn off and disconnect the power supply and **rotate the motor by hand several times** so as to avoid excessive current drawn on the motor and the power supply.



**GUN SAFETY DEVICE:** Whenever you use the high pressure washer, we suggest you grip in the right position, with one hand on the handle and the other on the lance, When you stop the machine it is necessary to use the safety lock placed on the gun in order to avoid accidents.

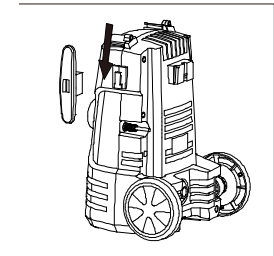


**Troubleshooting**

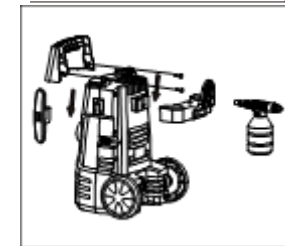
| Symptom  | Probable Cause   | Remedy   |
|--|--|--|
| When switched on, the machine does not start working | Plug is not well connected or an electric socket is faulty.        | Check plug, socket.  |
|  | The unit is pressurized.   | Squeeze the trigger on the gun.  |
|  | The main voltage is insufficient, lower than the minimum required. | Check that the main voltage is adequate.   |
|  | The pump is stuck.   | Refer to after storage instructions.   |
|  | The thermal safety switch has tripped                              | 1. Switch off the unit and let the motor cool for a few minutes<br>2. Leave the lance open                               |
| Fluctuating Pressure                                 | Pump sucking air.  | Check that hoses and connections are airtight.   |
|  | Clogged nozzle   | Clean with tip cleaner   |
|  | The valve is dirty, worn out or stuck.                             | Clean and replace valve/seal whichever is necessary, or refer to dealer.   |
|  | Pump seals worn out.   |  |
| Water leaking from the pump.                         | Seals worn out.  | Check and replace seals, or refer to dealer.   |
| The motor stops suddenly.                            | The thermal safety switch has tripped due to overheating.          | Check that the main voltage corresponds to the specifications.<br>Switch off the unit and let it cool for a few minutes. |
|  | Extension cord is too long or wire size too small                  | Remove extension cord  |
| The pump doesn't reach the necessary pressure.       | The water inlet filter is clogged.                                 | Clean the water inlet filter.  |
|  | Pump sucking air from connections or hoses.                        | Check that all supply connections are tight.   |
|  | Suction/ delivery valves are clogged or worn out.                  | Check that the water feeding hose is not leaking.  |

**Assembly Instructions (Carbon Brush Motor)**

You will need a standard screw driver. Insert cable hook hold into the machine, as shown in the fig



Align holes on the bottom of the pressure cleaner as shown and tighten the 2 screws, as shown in the fig.



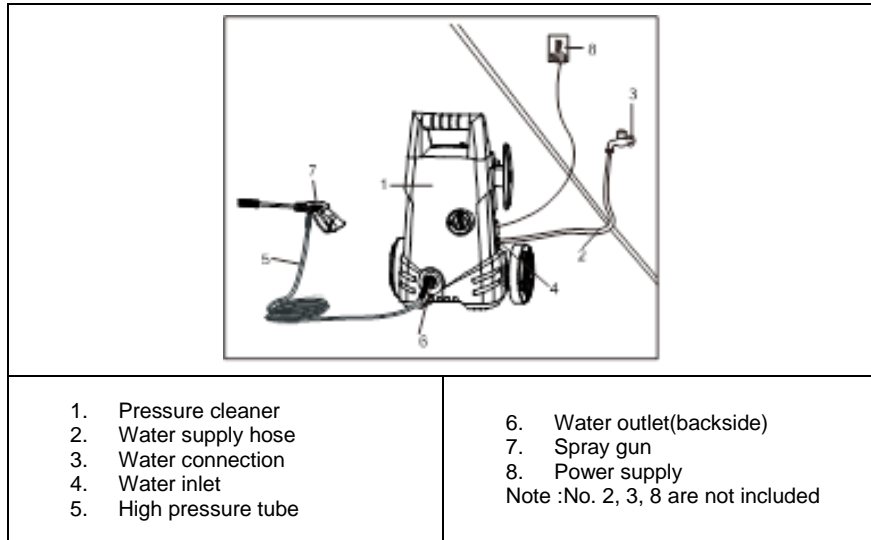
Fit the wheel to the machine, as shown in the fig.



**Connection:**

1. Attach the high pressure hose to the pressure water outlet of the machine.
2. Attach the spray handle to the high pressure hose. Prior to operating the machine please ensure that the high pressure hose has been completely uncoiled. Whilst the machine is in operation the hose MUST not loop.
3. Mount the nozzle or any other equipment you want to use.
4. Connect the machine to the water and power supplies.

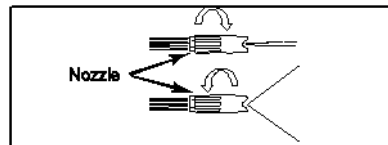
**Installation, Electrical and Water Connections-KK-PWCB-90**



**Pre-operation**

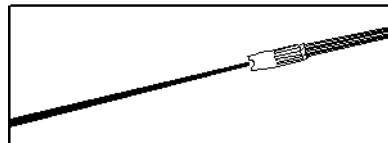
**ADJUSTING FAN PATTERN**

The angle of spray coming out of the lance may be adjusted on some lances by rotating the nozzle. This will vary the spray pattern from approximately a 0° narrow high impact stream to a 60° wide fan spray.



**Figure 2 - Adjusting nozzle for fan pattern (not applicable on some nozzle)**

A narrow stream has high impact force on the cleaning surface and results in maximum deep cleaning in a concentrated area. However, this narrow high impact spray must be used cautiously, as it may damage some surfaces.



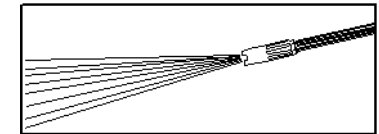
**Figure 3 -Narrow high impact stream**

| Model                      | KK-PWIM-110           | KK-PWIM-007       | KK-PWCB-90        |
|----------------------------|-----------------------|-------------------|-------------------|
| Working pressure           | 11MPa(110 bar)        | 130 bar           | 9Mpa (90 bar)     |
| Working flow rate          | 5.5 l/min             | 6.5 L             | 5.5 l/min         |
| Max. pressure              | 165 bar               | 195 bar           | 135 bar           |
| Max. pressure water supply | 0.4MPa(4bar)          |                   |                   |
| Motor Capacity             | 1800 W                | 2500 W            | 1600 W            |
| Power Supply Voltage       | 230V~50Hz             |                   |                   |
| LPA(sound pressure)        | 83.2dB(A),K=3 dB(A)   | 79dB(A),K=3 dB(A) | 81dB(A),K=3 dB(A) |
| LWA(acoustic power)        | 86 dB(A)              | 96 dB(A)          | 96 dB(A)          |
| Vibration value            | < 2.5m/s <sup>2</sup> |                   |                   |
| Max. Water Temperature     | 50 °C                 |                   |                   |
| Weight                     | 18kg                  | 22kg              | 9kg               |
| Dimensions(CM)             | 36x 35x 84            | 38x 41x94         | 29x 31x 42        |

**Technical Specifications**

| Model                                     | KK-PWCB-105            | KK-PWCB-130         | KK-PWIN-135        | KK-PWIN-165        |
|---|------------------------|---------------------|--------------------|--------------------|
| Working pressure                          | 7MPa(70 bar)           | 9MPa(90bar)         |                    | 11Mpa (110 bar)    |
| Allowable pressure                        | 10.5MPa (105 bar)      | 13.5MPa (135bar)    |                    | 16.5MPa (165 bar)  |
| Working flow rate                         | 5.0 liter/min          | 5.7 Liter/min       | 6 liter/min        |                    |
| Max flow rate                             | 7.1 liter/min          | 7.5 liter/min       |                    |                    |
| Max. Pressure water supply                | 0.4MPa(4bar)           |                     |                    |                    |
| Motor Capacity                            | 1650w                  | 1850w               | 1500w              | 1800w              |
| Power Supply Voltage                      | 230V~50Hz              |                     |                    |                    |
| Recommend-ed value for Voltage Stabilizer | 2.5kW(Min)             |                     | 2kW(Min)           | 2.5kW(Min)         |
| LPA(sound pressure)                       | 80 dB(A), K=3 dB(A)    | 78 dB(A), k=3 dB(A) | 79dB(A), K=3 dB(A) | 75dB(A), K=3 dB(A) |
| LWA(acoustic power)                       | 98 dB (A)              | 96 dB (A)           | 97 dB (A)          | 95.3 dB (A)        |
| Vibration value                           | < 2. 5m/s <sup>2</sup> |                     |                    |                    |
| Max Water Temperature                     | 50°C                   |                     |                    |                    |

A wide fan pattern will distribute the impact of the water over a larger area, resulting in excellent cleaning action with a reduced risk of surface damage, Large surface areas can be cleaned more quickly using a wide fan pattern.

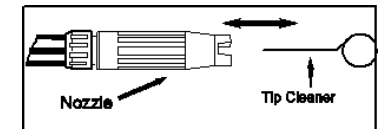


**Figure 4 - Wide fan pattern.**

**NOZZLE CLEANING INSTRUCTIONS**

A clogged or partially clogged nozzle can cause a significant reduction of water coming out of the nozzle and cause the unit to pulsate while spraying. To clean out the nozzle:

- Turn off and unplug unit.
- Turn off water supply. Relieve any pressure trapped in the hose by squeezing trigger 2-3 times.
- Separate lance from gun.
- Rotate nozzle to the narrow stream setting. This opens up the fan blades.
- Using included tip cleaner, or an unfolded paper clip, insert wire into the nozzle hole and move back and forth until debris is dislodged. (See Figure 5.)
- Remove additional debris by back-flushing water through the nozzle. To do this, place end of a garden hose (with water running) to end of nozzle for 30-60 seconds.



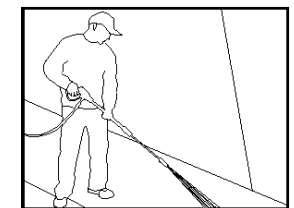
**Figure 5- Insert tip cleaner in nozzle hole and move back and forth until debris is dislodged**

**ANGLE TO THE CLEANING SURFACE**

When spraying water against a surface, maximum impact is generated when the water strikes the surface "head on."

However, this type of impact tends to cause dirt particles to imbed in the surface, thereby preventing the desired cleaning action.

The optimum angle for spraying water against a cleaning surface is 45 degrees.



**Figure 6-Optimum Angle to Cleaning Surface**

Spraying water against a surface at this angle provides for the most beneficial impact force combined with efficient removal of debris from the surface.

### DISTANCE FROM CLEANING SURFACE

Another factor that determines the impact force of the water is the distance from the spray nozzle to the cleaning surface. The impact force of the water is increased as the nozzle is moved closer to the surface.

### HOW TO AVOID DAMAGING SURFACES

Damage to cleaning surfaces occurs because the impact force of the water exceeds the durability of the surface. The impact force can be varied by controlling the three previously noted items. Never use a narrow high impact stream or a turbo/rotary nozzle on a surface that is susceptible to damage. Avoid spraying windows with a narrow high impact stream or turbo nozzle as this may cause breakage. The surest way to avoid damaging surfaces is to follow these steps:

1. Before triggering the gun, adjust the nozzle to a wide fan pattern.
2. Place the nozzle approximately 4-5 feet from and 45 degrees to the cleaning surface, and trigger the gun.
3. Vary the fan pattern spray angle and the distance to the cleaning surface until optimum cleaning efficiency is achieved without damaging the surface.

### TURBO NOZZLE (NOT INCLUDED WITH ALL MODELS)

A turbo nozzle, sometimes referred to as a rotary nozzle, is a very effective tool that can significantly reduce cleaning time. The turbo nozzle combines the power of a narrow high impact stream and the efficiency of a 25 degree fan pattern. This swirls the narrow high impact stream into a cone shape that cleans a larger area.

**CAUTION:** Since a turbo nozzle uses a narrow high impact stream, only use it in applications where the cleaning surface cannot be damaged by narrow high impact spray. Additionally, the turbo nozzle is NOT adjustable and cannot be used to apply detergent.

### DETERGENTS

The use of detergents can dramatically reduce cleaning time and assist in the removal of difficult stains. Some detergents have been customized for pressure washer use on specific cleaning tasks. These detergents are approximately as thick as water. The use of thicker detergents, such as dish soap, will clog the chemical injection system and prevent the application of the detergent.

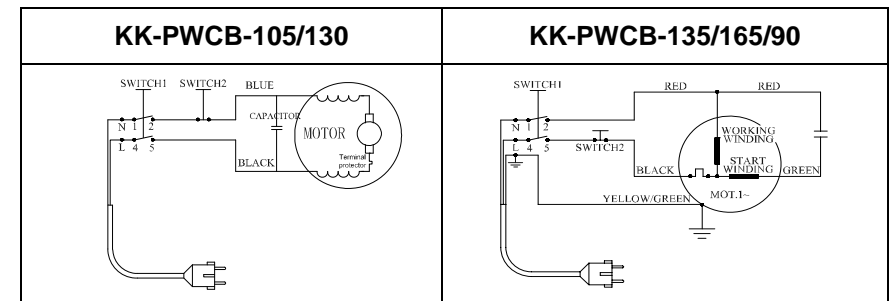
The cleaning power of detergents comes from applying them to a surface and giving the chemicals time to break down the dirt and grime. Detergents work best when applied at low pressure.

The combination of chemical action and high pressure rinsing is very effective. On vertical surfaces, apply the detergent starting at the bottom and work your way upward. This will prevent the detergent from sliding down and causing streaks. High pressure rinsing should also progress from the bottom to top. On particularly tough stains, it may be necessary to use a brush in combination with detergents and high pressure rinsing.

### Tips For Extending Pressure Washer's Life

1. Never operate unit without water.
2. Pressure washer is not meant to pump hot water. Never connect to hot water supply – this will significantly reduce life of the pump.
3. Using detergent other than others brand may cause damage to pump components (O-rings, etc.). This also applies to chemicals such as bleach, dish soap, etc.
4. Never operate unit for more than one (1) minute without spraying water. Resulting heat buildup will damage pump.
5. Before adjusting nozzles pressure (high-to-low or low-to-high) release trigger. Failure to do so will reduce life of O-rings in lance.

### Electrical Diagram



**Low/High Pressure Adjustable Lance**

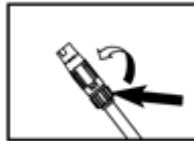
**Using High Pressure:**

Please make sure the trigger released and there is not any water spraying then turn the rear part of spray nozzle with shins Squeeze the trigger, the gun will spray water with high pressure.



**Using low pressure:**

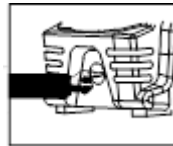
Please make sure the trigger released and there is not any water spraying then turn the rear part of spray nozzle clockwise. Squeeze the trigger, the gun will spray water with low pressure.



**CAUTION:** Selection of high or low pressure by turning action. The selection of the pressure must be carried out with the gun in closed position.

**Water Inlet Screen**

The water inlet filter must be inspected regularly, so as to avoid blockage and restriction in the water supply to the pump

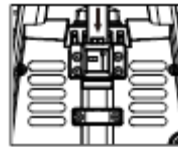


**Button:**

Please press this button when you adjust the length of the handle

**Using Detergent**

- Add detergent to the container. Set the Adjustable Spray Wand at low pressure position.
- Trigger gun to spray detergent



**Operating Instuctions (Carbon Brush Motor)**

The following cleaning procedure will help you to organize your cleaning task, and ensure that you achieve the most beneficial results in the shortest amount of time. Remember to use the spraying/cleaning techniques previously listed.

**1. SURFACE PREPARATION**

Before starting a pressure wash cleaning job, it is important to prepare the surface that is to be cleaned. This is done by cleaning the area of furniture, and making sure that all windows and doors are closed tight. In addition, you should make sure that all plants and trees adjacent to the cleaning area are protected by a drop cloth. This will ensure that your plants won't be sprayed by the detergents.

**2. INITIAL HIGH PRESSURE RINSE**

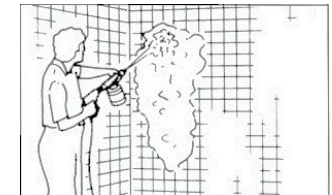
The next step is to spray the cleaning surface with water to clear off any dirt or grime that may have collected on the surface. This will allow your detergent to attack the deep down dirt that has worked its way into the cleaning surface. Before triggering the gun, adjust the nozzle to a wide fan pattern and slowly adjust to the desired spray pattern. This will help you avoid applying too much concentrated spray to the surface which could cause damage.

**3. DETERGENT APPLICATION**

USE THE INSTRUCTIONS APPROPRIATE FOR MODEL PURCHASED

**NOTE:** Use only detergents formulated for pressure washes.

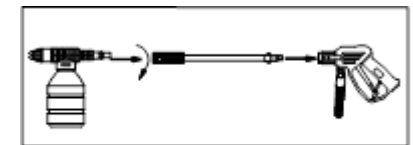
**NOTE:** Test detergent in an inconspicuous area before use.



**4. UNITS WITH DETERGENT APPLICATOR INCLUDED**

Follow manufacturer's label directions for mixing correct concentrations of detergent to water ratio through the pressure washer is approximately 5.4% (1 to 19).

- Unscrew to top of detergent applicator and fill applicator with detergent.
- Replace top on applicator.
- Remove lance from gun.
- Attach detergent applicator to gun. ( See Figure 8)



**Figure 8 - Attach applicator to gun**

- e) Apply detergent so it thoroughly covers cleaning surface. Apply from bottom to top to prevent detergent from sliding down and streaking.
- f) Allow detergent to remain on the surface for a few minutes. This is a good time to use a brush to lightly scrub heavily soiled areas. Never allow detergent to dry on the cleaning surface.
- g) Remove detergent applicator from gun and replace with the lance, or remove applicator from end of lance.
- h) Rinse detergent from surface.

**NOTE:** Flush detergent applicator with clear water following each use

### 5. FINAL RINSE

Start final rinse at bottom and work upward. Make sure you thoroughly rinse the surface and that all detergent has been removed.

### 6. SHUT DOWN

- a) Be sure all detergent is flushed from system.
- b) Turn off motor.
- c) Turn off water supply.
- d) After motor and water supply are turned off, trigger gun to depressurize system.  
**CAUTION:** NEVER turn water supply off before turning motor off. Serious damage could occur to the pump and/ or motor.  
**WARNING!** NEVER disconnect high pressure discharge hose from machine while system is pressurized. To depressurize, turn motor off, turn water supply off and squeeze gun trigger 2-3 times.
- e) After each use, wipe all surfaces of the pressure washer with a clean, damp cloth

### 7. STORAGE

Do not store pressure washer outdoors.

Do not store pressure washer where it might freeze.

## Operating Instructions (Induction Motor)

### Starting Steps:

**!** This unit is to be connected to a cold water source **ONLY**.




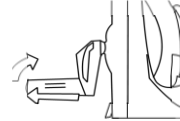
**!** The motor of this pressure washer will NOT run. It will only operate when the trigger is squeezed.

1. Connect the outlet hose to the washer and connect the spray gun to the outlet hose.
2. Connect nozzle and nozzle extension.
3. Check the gauze filter is clear of any blockage.
4. Connect the water supply hose.
5. Check that the hose has no bends in it.
6. Turn on water and check for leaks.
7. Depress the trigger to allow air to be expelled through the pump and hoses, lock trigger.
8. Plug in machine and turn on switch.
9. Unlock trigger and use the pressure washer.

### Shutdown Steps:

1. Turn off the motor (push switch to the off position)
2. Unplug the unit from the power source.
3. Turn off the water supply.
4. Press the trigger of the gun to depressurize the system.
5. Disconnect the garden hose from the pressure washer.
6. Wipe all surfaces of the unit with a damp clean cloth.
7. Engage the gun safety lock.

|                |   |
|----------------|---|
| <b>CAUTION</b> | <b>ALWAYS</b> turn off the unit's motor BEFORE turning off the unit's water supply. <i>Serious damage could occur in the motor if the unit is run without water.</i>  |
|                | <b>NEVER</b> disconnect the high-pressure discharge hose from the machine while the system is still pressurized. To depressurize the unit, turn off the motor, turn off the water supply and squeeze the trigger 2-3 times. |

|  |  |  |
|--|--|--|
| <b>Adjustable Spray Nozzle:</b> Turn off the spray lance first, and then adjust the nozzle. Water may be sprayed out from the spray nozzle either linearly(fig 1) or in fan shapes (fig 2) | Fig - 1<br> | Fig-2<br>   |
| <b>Water Inlet Screen:</b> The water inlet filter must be inspected regularly, so as to avoid blockage and restriction in the water supply to the pump (Fig 3).                            |             | <b>Hose-Reel Handle:</b> The hose reel handle turns down for use and up for storage. To turn up the handle, pull out and turn up. (Fig 4)<br> |

### Applicable for models- KK-PWIM-110:

#### Adjustable Spray Nozzle

Turn off the spray lance first, hold the rear part of spray nozzle, then turn the front part of spray nozzle clockwise, Water may be sprayed out from the spray nozzle in fan shapes



Turn the front part of spray nozzle anti-clockwise, Water may be sprayed out from the spray nozzle linearly

**CAUTION:** Water should be sprayed out from the spray nozzle in fan shapes (above fig), when cleaning the car or other vehicle.

