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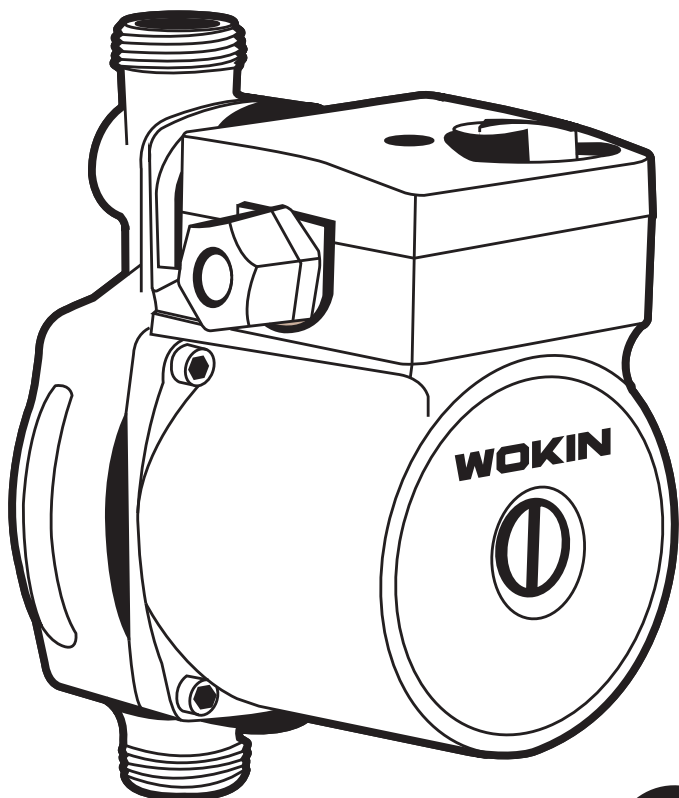
790190

AUTO WATER PRESSURE BOOSTER PUMP

INSTRUCTION MANUAL

10M
MAX.HEAD

125W
230V/50Hz



SAVE THIS MANUAL!

You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

TECHNICAL DATA

Model	R5 15/9A		R5 15/9B
Description	Water Pressure Booster Pump		Water Pressure Booster Pump
Voltage	110 V ~		220 V ~
Frequency	60 Hz		50 Hz
Current	1 A		0.6 A
Speed	3600 RPM		2850 RPM
Power	1/6 Hp		1/6 Hp
Inlet and Outlet Diameter	1/2 NPT		1/2 BSP
Minimum Inlet Pressure	0.72 PSI	Maximum Height / Maximum Value of total Manometer Height	36 ft
Maximum Inlet Pressure	145 PSI	Liquid Maximum Temperature	176 °F
Conductors	22 AWG x 3C with 221 °F insulation temperature		
Work Cycle	50 minutes work per 20 minutes rest. Maximum 6 hours daily		
Insulation	Class I	IP Grade	IP44

Power cord grips: Type "Y". Tool Build quality: Basic
Insulation Thermal insulation on motor winding: Class F

** WARNING!**

Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a Authorized Service Center.

The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use.

Do not expose to rain, liquids and/or dampness.

** WARNING!**

Before gaining access to the terminals all power sources should be disconnected.

POWER REQUIREMENTS

⚠ WARNING!

The tool shall be connected to ground while in use to prevent electrical shock.

1.Plug in the socket into a properly grounded power outlet as shown in example A. Not all the power outlets are properly grounded. If in doubt, verify with a qualified electrician.

2.If the power outlet is a two-pole (two orifices), **BY NO MEANS REMOVE OR MODIFY THE GROUND CONDUCTOR OF THE PLUG**. Use a temporary adapter as shown in example B. Always connect the conductor ring as indicated.

⚠ WARNING!

When using an extension cable, verify the gauge is enough for the power that your product needs. A lower gauge cable will cause voltage drop in the line, resulting in power loss and overheating. The following table shows the right size to use depending on cable's length and the ampere capability shown in the tool's nameplate. When in doubt use the next higher gauge.

Ampere Capacity	Number of Conductors	Extension gauge: from 6 ft to 49 ft	Extension gauge: higher than 49 ft
From 0 A and up to 10 A	3 (one grounded)	18 AWG(*)	16 AWG
From 10 A and up to 13 A	3 (one grounded)	16 AWG	14 AWG
From 13 A and up to 15 A	3 (one grounded)	14 AWG	12 AWG
From 15 A and up to 20 A	3 (one grounded)	8 AWG	6 AWG

IMPORTANT SAFETY INFORMATION

General power tool safety warnings

WARNING!

Read carefully all safety warnings and instructions listed below. Failure to comply with any of these warnings may result in electric shock, fire and / or severe damage. Save all warnings and instructions for future references.

Work area safety

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Sparks generated by power tools may ignite the flammable material.
3. Keep children and bystanders at a safe distance while operating the tool. Distractions may cause losing control.

Electrical safety

1. The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Modified plugs and different power outlets increase the risk of electric shock.
2. Avoid body contact with grounded surfaces, such as pipes, radiators, electric ranges and refrigerators. The risk of electric shock increases if your body is grounded.
3. Do not expose the tool to rain or wet conditions. Water entering into the tool increases the risk of electric shock.
4. Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. When operating a tool outdoors, use an extension cord suitable for outdoor use. Using an adequate outdoor extension cord reduces the risk of electric shock.
6. If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply. Using a GFCI reduces the risk of electric shock.

Personal safety

1. Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of distraction while operating the tool may result in personal injury.
2. Use personal protective equipment. Always wear eye protection. Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.
3. Prevent unintentional starting up. Ensure the switch is in the "**OFF**" position before connecting into the power source and / or battery as well as when carrying the tool. Transporting power tools with the finger on the switch or connecting power tools with the switch in the "**ON**" position may cause accidents.
4. Remove any wrench or vice before turning the power tool on. Wrenches or vices left attached to rotating parts of the tool may result in personal injury.
5. Do not overreach. Keep proper footing and balance at all times. This enables a better control on the tool during unexpected situations.
6. Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts. Loose clothes or long hair may get caught in moving parts.
7. If you have dust extraction and recollection devices connected onto the tool, inspect their connections and use them correctly. Using these devices reduce dust-related risks.

Power tool use and care

1. Do not force the tool. Use the adequate tool for your application. The correct tool delivers a better and safer job at the rate for which it was designed.
2. Do not use the tool if the switch is not working properly. Any power tool that cannot be turned **ON** or **OFF** is dangerous and should be repaired before operating.
3. Disconnect the tool from the power source and / or battery before making any adjustments, changing accessories or storing. These measures reduce the risk of accidentally starting the tool.
4. Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool. Power tools are dangerous in the hands of untrained users.
5. Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool. Most accidents are caused due to poor maintenance to the tools.

6. Keep the cutting accessories sharp and clean. Cutting accessories in good working conditions are less likely to bind and are easier to control.
7. Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions. Using the tool for applications different from those it was designed for, could result in a hazardous situation.

Service

1. Repair the tool in a Authorized Service Center using only identical spare parts. This will ensure that the safety of the power tool is maintained.
2. Children or people with reduced physical, sensory or mental capabilities shall not operate the tool, neither inexperienced people or without knowledge in the use of the tool, unless supervised by a person responsible of their safety or if receiving previous instructions about the tool operation. Children shall be kept under supervision to double-check they will not play with the tool. Tight supervision shall be used with children or disabled persons to prevent from using or being close to any household tool.

Safety Warnings for Water Pressure Pumps

- The automatic pressure pump is built with a noiseless power motor totally coated with rotating parts generating pressure in domestic clean water pipes. The pump doesn't overload when full and requires little maintenance.
- It is mainly used to pressurize domestic use water to the water heater and for sun heated water.

CAUTION!

- **The water to be pumped shall be clean, with no solid particles, fibers or mineral or explosive liquids.**
- The pump may be used in warm regions where the water entering into the line can be very hot (the pump is designed to support up to **176 °F**).

CAUTION!

- Before setting up the pump double check the pipes system is properly connected and with no obstructions, soldering remains or dirt.

WARNING!

- The pump shall be installed in a dry, well ventilated place to prevent electric shock caused by water, spills or condensation. If the pump is set outdoors it will need a protective cover.

WARNING!

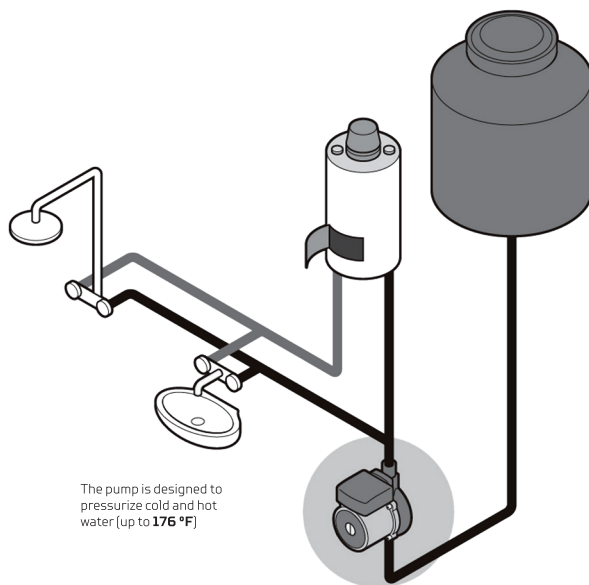
- Do not install the pump inside the bathroom because mist can enter into the connections box.

⚠ WARNING!

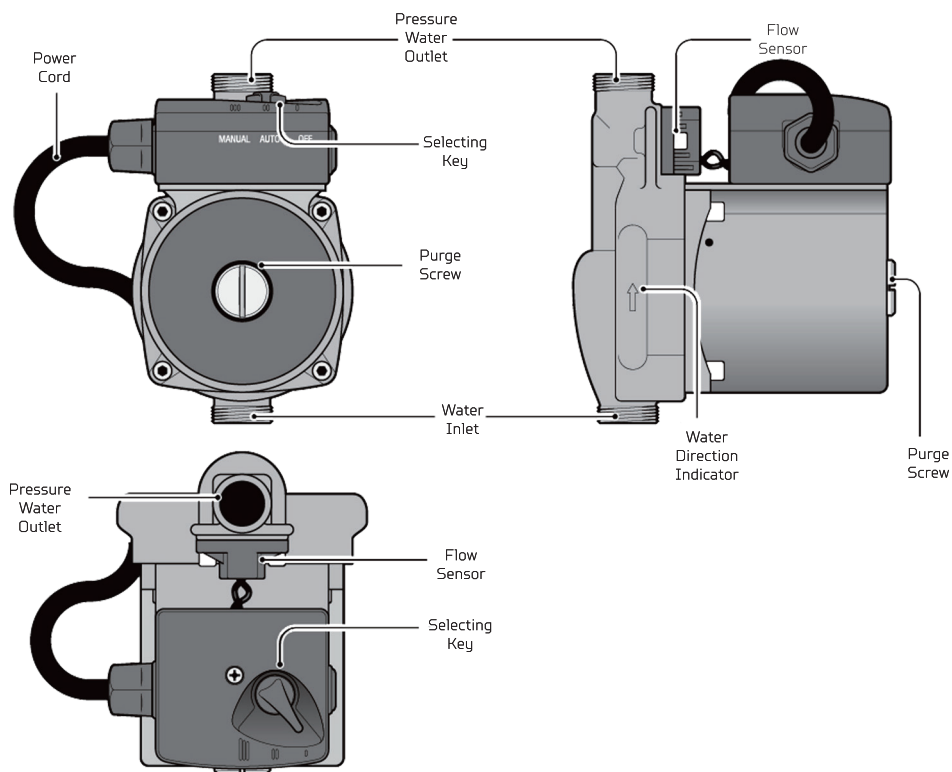
- Do not allow the pump's electric parts be in contact with water.
- A recommendation to facilitate maintenance. Set up an independent shut-off valve system in the pump water inlet and outlet, a filter in the inlet pipes and a valve with automatic air release if there is a possibility that air bubbles build into the pipes.
- If the pump is not used long periods of time close the inlet valve and cut the power supply.
- Temperature in the system shall not be higher than environment temperature to prevent a short circuit caused by humidity condensation in the pump body.
- If the environment temperature is below **32 °F** discharge all the water from the pipes to prevent freeze related cracks.

⚠ CAUTION!

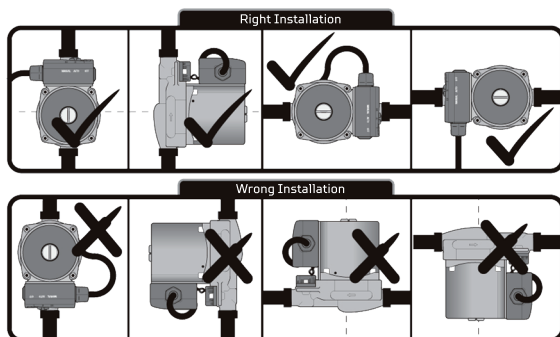
- To prevent overheating stop the pump immediately if there are particles, incrustation, obstruction or any type of dirt present.
- The information labels adhered to the device shall not be removed or covered. All the information about the device that is no longer legible shall be replaced immediately.



PARTS



INSTALLATION

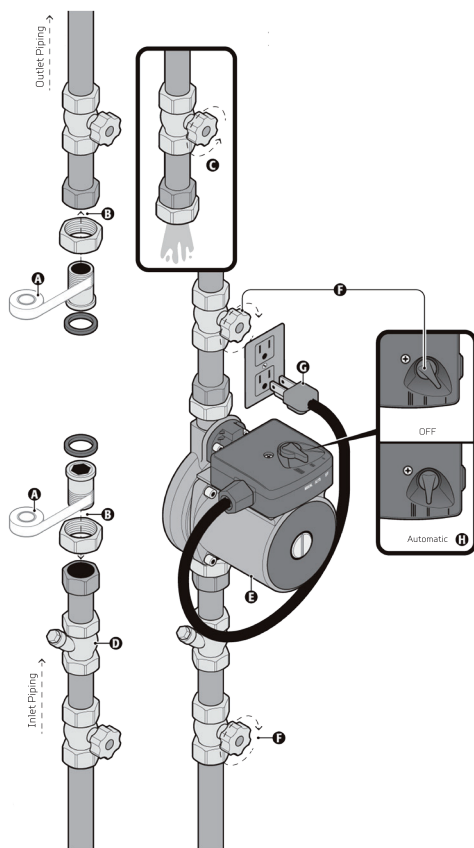


⚠ CAUTION!

When installing the pump do not overlook setting it with the motor axis in a horizontal position.

⚠ CAUTION!

The direction of the flow should follow the direction indicated by the arrow marked in the pump body.

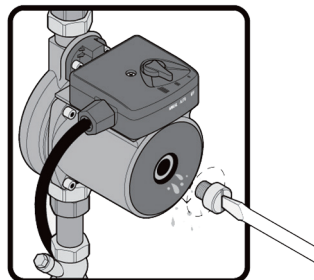


- Use threads sealing tape in all the connections **(A)**.
- If the piping is D 3/4", connect the pump directly into the inlet and outlet pipes. If the piping is D 1/2", use the reduction nuts (included) to screw them into the pipes inlet and outlet **(B)**.
- Keep the closing valves **(C)** open a few seconds to clean and remove any particle from the inlet and outlet connections before installing the pump.
- Setting a filter in the inlet pipe **(D)** is recommended.
- Fix the pump **(E)**.
- Set the selector key OFF and open the inlet and outlet valves **(F)**.
- Connect the pump to a grounded power inlet **(G)**.
- Set the selector key in automatic mode **(H)**.

Air Purging

- For the pump to run correctly after being installed or after maintenance, discharge the air from inside the pump before starting it.
- Open the water faucet after installing the pump (see **page 9**).
- Set a screwdriver tip in the purge screw slot.
- Turn the purge screw to remove it and let air come out until water starts to flow.
- Set and screw back the purge screw.

To prevent an electric fault do not allow water entering the connections box or the plug.



Start Up

Use the selecting key to operate the pump. There are three positions:

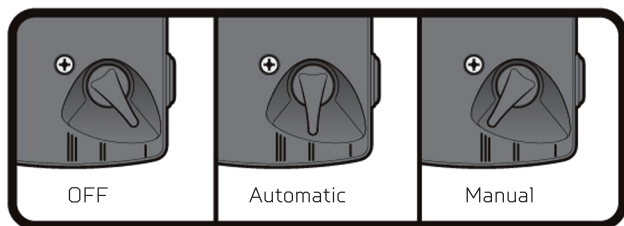
Off: The pump motor stops.

Automatic: The pump starts when the water faucet is opened.

Manual: The pump is running constantly.

When selecting the automatic speed mode, the flow speed shall be higher than 0.4 gal/min. Otherwise the pump will not start.

When selecting the manual mode there should be at least one faucet open. Otherwise the pumped liquid will be too hot and the pump may get damaged.



MAINTENANCE

Cleaning and Care

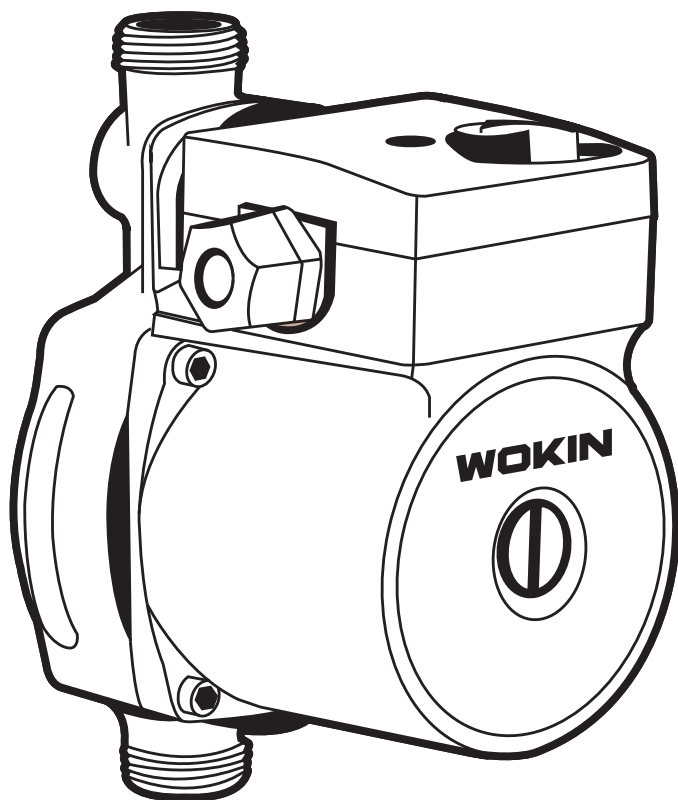
Inspect regularly all the mounting screws and double check they are correctly tightened. If any of the screws is loose, tighten immediately.

Repairs

Repairs to the equipment shall only be carried out in a Authorized Service Center
Service and maintenance carried out by non-qualified persons may be dangerous and could cause personal injuries and makes the product warranty void.

TROUBLESHOOTING

Problem	Cause	Solution
The pump is not running.	1.The pump is off. 2.Problems in the power supply. The motor axis is stuck.	1.Set the pump automatic selector in automatic mode (II) or manual (III). 2.Check the fuses and power line. Remove the purge screw and turn the axis with a screwdriver.
The pump is making noise.	There is air in the system or in the pump.	Run the pump some minutes with the faucet opened and discharge air.
The pump does not stop when the faucet is closed.	1.The pump remote selector is in manual mode. 2.The flow sensor is dirty.	1.Change to off mode (I) or automatic (II) mode. 2.Open the valve.
The pump is functioning but is not generating pressure.	1.The valve is closed. 2.There is air in the pipe or the pump. 3.The pump is dirty. 4.The flow sensor is blocked with foreign objects.	1.Open the valve. 2.Run the pump a few minutes with an open faucet and discharge air. 3.Go to an Authorized Service Center.



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