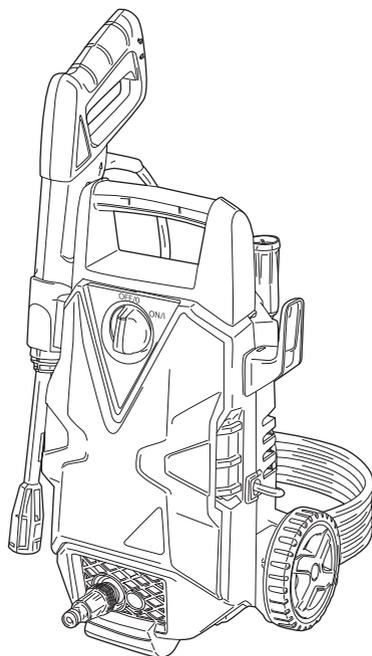
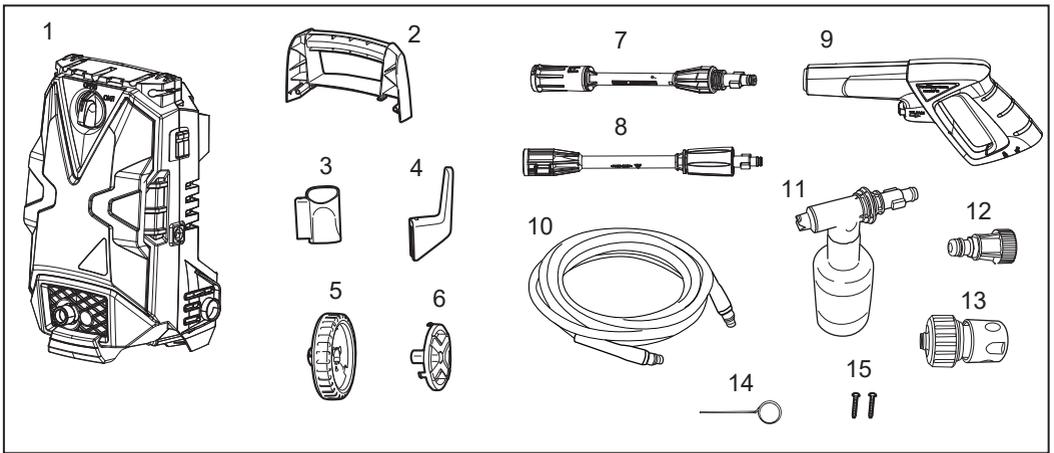


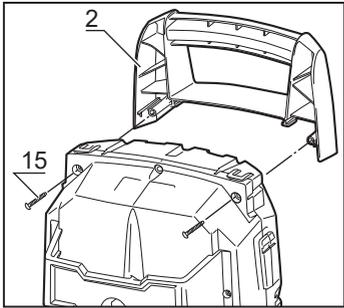
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 OWNER'S OPERATING MANUAL

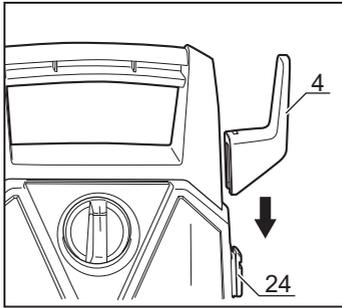




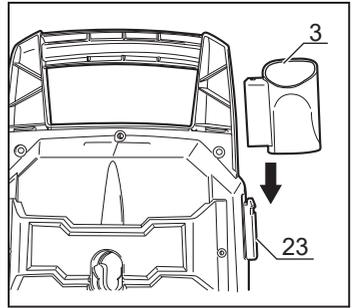
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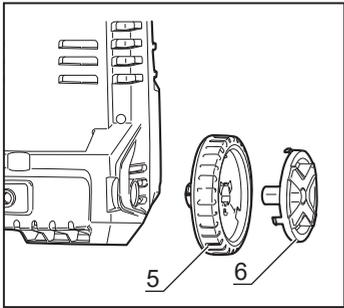
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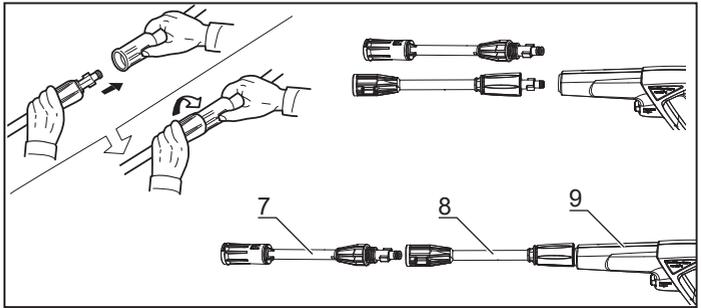
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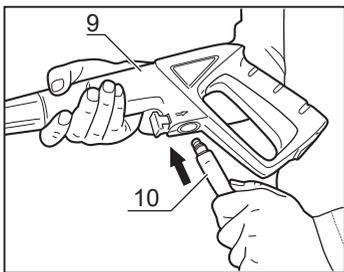
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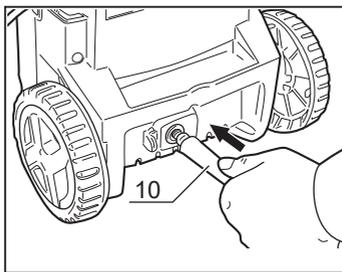
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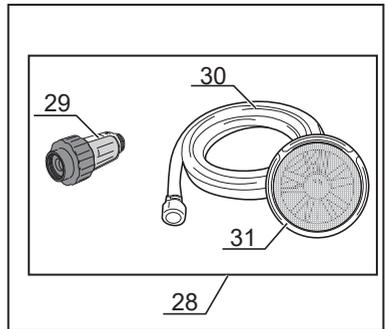
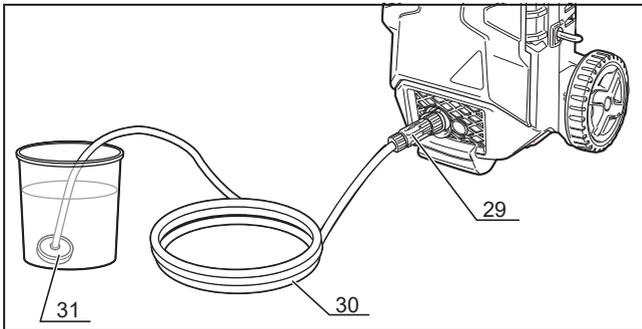
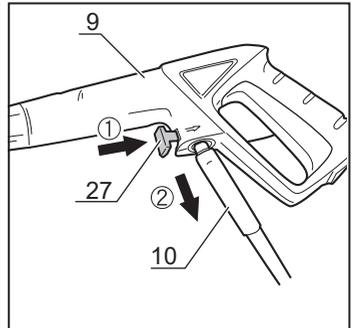
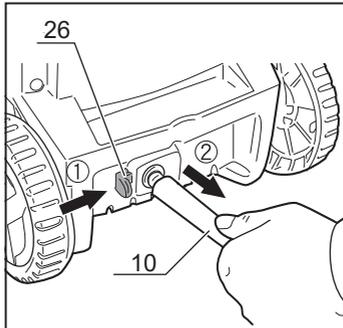
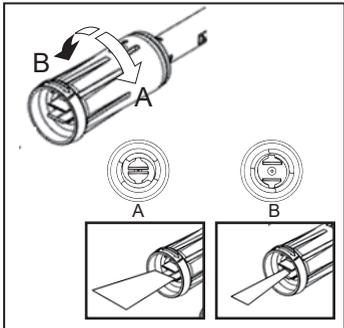
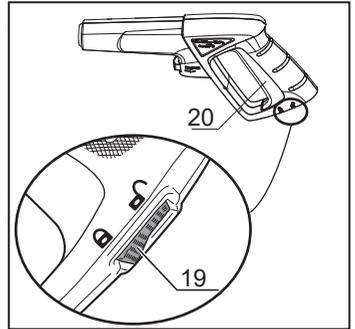
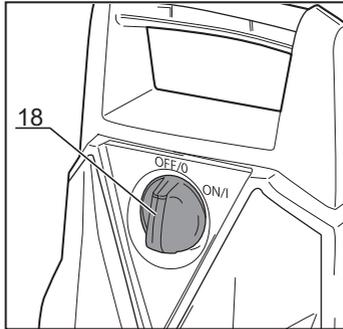
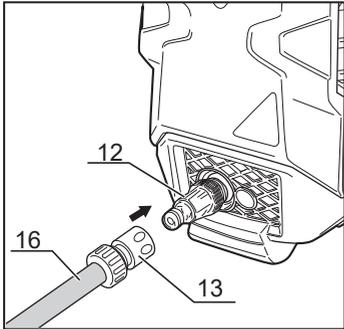
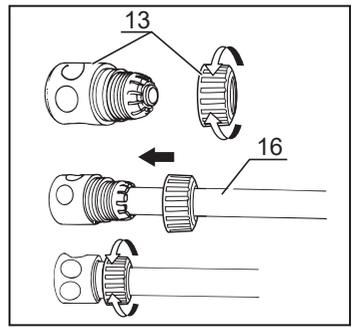
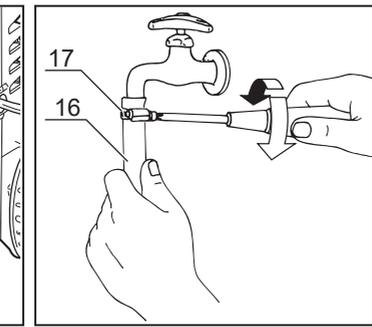
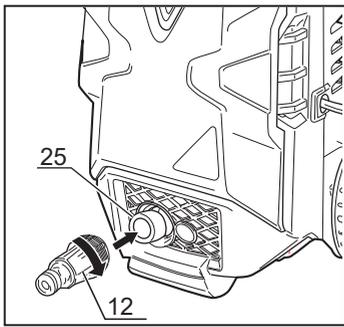
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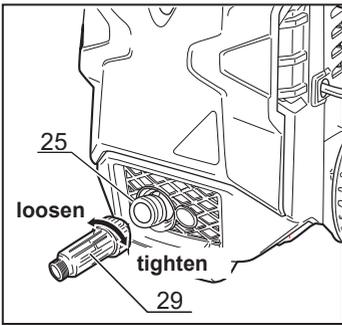


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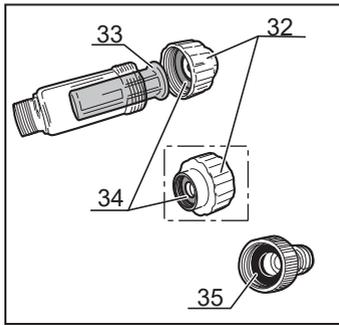


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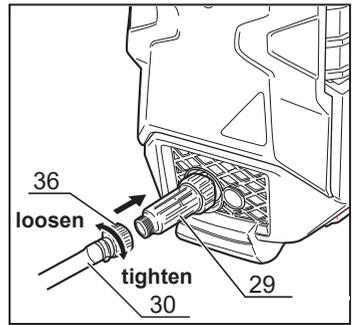




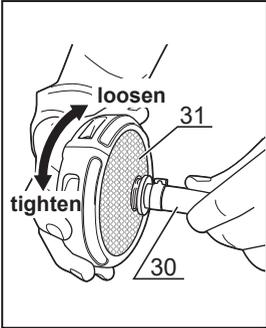
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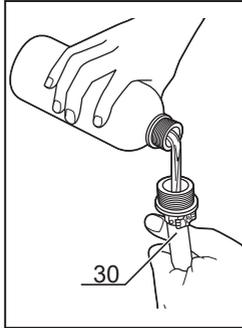
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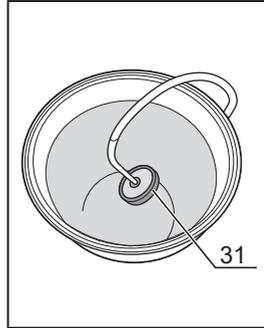
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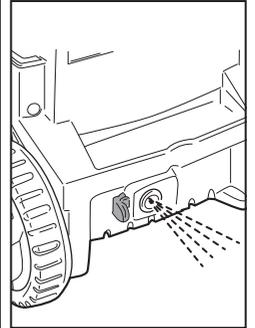
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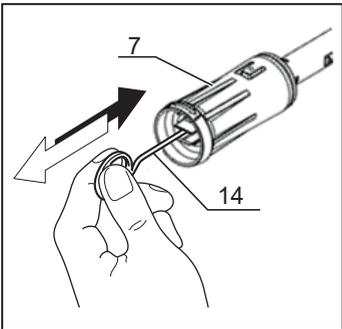
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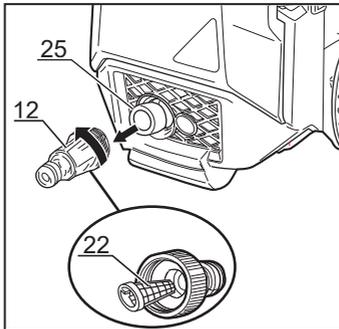
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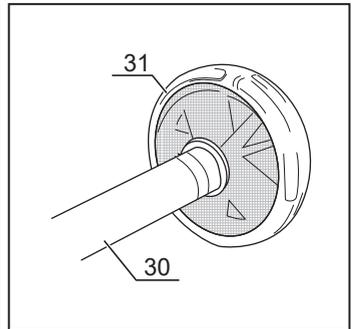
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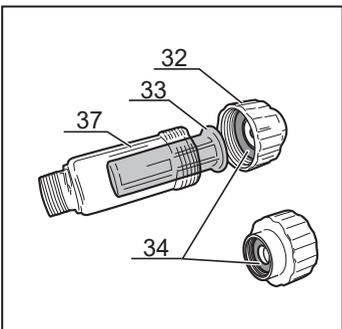
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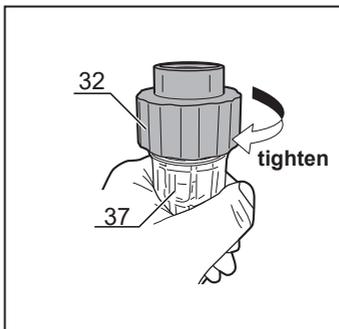
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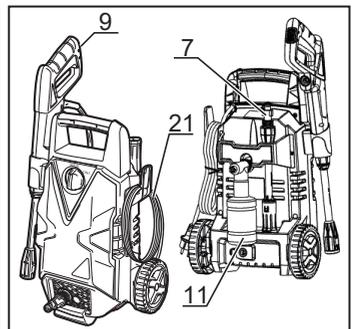
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Carefully read and understand these instructions before operating this high pressure washer.

Package Contents (Fig.1)

1. Main unit
2. Handle
3. Spray gun holder
4. Cord hook
5. Wheel
6. Wheel cover
7. Variable nozzle lance
8. Mid nozzle lance
9. Spray gun
10. Spray gun hose (5m)
11. Foam nozzle
12. Water connector
13. Hose joint
14. Nozzle cleaning pin
15. Screw

Technical data

Power rating input	1,400 W
Rated pressure	70 bar (7 MPa)
Allowable pressure	100 bar (10 MPa)
Rated flow	5.5 L / min
Max. inlet water pressure	0.7 MPa
Max. temperature:	40°C
Adding water	From a faucet
Weight	4.5 Kg
Sound pressure level Uncertainty	LpA=77dB(A) KPA=3dB
Sound power level	LwA=92dB(A)
Vibration Value	aH=1.8m/s ² Kah=0.05m/s ²

Name of Parts:

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Main unit 2. Handle 3. Spray gun holder 4. Cord hook 5. Wheel 6. Wheel cover 7. Variable nozzle lance 8. Mid nozzle lance 9. Spray gun 10. Spray gun hose 11. Foam nozzle 12. Water connector 13. Hose joint 14. Nozzle cleaning pin 15. Screw 16. Water supply hose (option) 17. Hose clamp (option) 18. Main switch 19. Safety lock button 20. Trigger | <ol style="list-style-type: none"> 21. Power cord 22. Filter 23. Hook 24. Hook 25. Water inlet 26. Release button 27. Release button 28. Self-priming kit (option) 29. Self-priming filter (option) 30. Self-priming hose (option) 31. Strainer (option) 32. Filter cap (option) 33. Filter (option) 34. Rubber seal (option) 35. Rubber seal 36. Ring (option) 37. Filter case (option) |
|--|---|

Preparation

Before starting up your machine, we advise you to carefully read through this instruction manual. Follow all instructions to minimize the risk of injuries when using the machine.

Prior to operation

Before starting up your machine, please check it carefully for any defects. If you find any, do not start up your machine and contact your distributor.

Especially check:

The insulation of the electric cable should be faultless and without any cracks. If the electric cable is damaged, it should be replaced by our authorized distributor.

⚠ Mains power supply connection

The following should be observed when connecting the machine to the electric installation:

- Check before operation that the local power supply is the same as the specifications on the rating label.
- This machine is equipped with universal motor with double insulation. It is not necessary to have earth connection.
- The electric installation shall be made by a certified electrician.
- It is strongly recommended that the power supply to the machine should include a residual current device (RCD).
- Product protection degree:IPX5

General safety regulations and accident prevention

It is essential that you read the safety regulations and operating instructions in their entirety and follow the information contained therein in order to eliminate the possibility of an accident or potentially dangerous situation from occurring while working with the machine.

- The power plug must be plugged into a properly installed socket. The power supply should include a residual current device for max. 30 mA.
- Always check the device, the mains cable and the plug before using the machine. Only operate the device when it is in good working order and has not been damaged in any way. Damaged parts must be immediately replaced by a qualified electrician.
- Always pull the power plug out of the socket outlet before doing any work on the machine, before changing the nozzle and whenever it is not being used.
- **Warning!** Inadequate extension cords can be dangerous.
- If an extension cord is used, it shall be suitable for outdoor use, and the connection has to be kept dry.
- Only use suitable extension cable when working outdoors. Extension cable must have a minimum cross-section of 1.5 mm².
- **Warning!** This device was developed to be used with cleaning agents supplied or recommended by the manufacturer. The use of any other cleaning agents or chemicals can negatively affect the safety of the device.
- Cable connections should be kept dry and off the ground. Always uncoil the extension cable completely to avoid heat damage to the cable.
- **Warning!** Do not use the device when other persons or animals are in the near vicinity unless they are wearing appropriate protective clothing.

- **Warning!** High pressure jets can be dangerous when the machine is not used properly. Do not direct the jet toward persons, animals, live electrical equipment or the device itself.
- Do not direct the jet against yourself or others in order to clean clothes and footwear.
- Children should be supervised to ensure that they do not play with the machine.
- This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, "High pressure cleaners shall not be used by children or untrained personnel."
- **Warning!** Spray gun hoses, fittings and couplings are important components for the safety of the device. Only use spray gun hoses, fittings and couplings that are recommended by the manufacturer.
- In order to ensure the operational safety of the device, only use genuine manufacturer's replacement parts or parts that have been approved by the manufacturer.
- Do not operate the device if the mains cable or other important parts of device – e.g. safety related elements, spray gun hose, spray gun – are damaged.
- Do not pull or carry the electric tool by its mains cable. Protect the mains cable from becoming damaged by oil, solvents and sharp edges.
- Keep your place of work tidy.
- Ensure that the switch is turned off when connecting the machine to the power supply.
- Wear the suitable work clothes.
- Check your machine to ensure that it is in good working order. If it is not functioning properly, have it checked by our authorized distributor. Have all maintenance and inspection work carried out only by our authorized distributor.
- The water jet discharged from the nozzle lance produces a 'kickback' on the spray gun. Therefore, make sure that you have a solid footing and that you have a firm hold of the handle grip. In order to protect yourself from possible flying objects (that are released due to the high pressure).
- The high pressure jet can damage vehicle tyres and tyre parts. Keep a distance of at least 30 cm from the object being cleaned.
- If there is a power failure while you are using the machine, be sure to switch off the machine for safety reasons.
- The electric pump always must be able to draw on a sufficient supply of water. Dry operation causes severe damage to the seals.
- Disconnect from the power supply before carrying out user maintenance.
- Only use genuine spare parts from the manufacturer or approved by the manufacturer.
- If the supply cord is damaged, it must be replaced by our authorized distributor in order to avoid a hazard.
- Never use the machine in an environment where there could be a danger of explosion. If any doubt arises, please contact our authorized distributor.
- It is not allowed to clean asbestos-containing surfaces with high pressure.
- This machine must not be used at temperatures below 0°C.
- The electric supply connection (for example, connection the RCD or fix wiring) shall be made by a qualified electrician and comply with IEC60364-1: Low-voltage electrical installations.

Safety devices

Safety lock on spray gun

The spray gun features safety lock button (19). When the lock is activated, the spray gun cannot be operated.

Motor pump protection

The motor is equipped with a motor circuit breaker switch. When the motor starts to run hot, it is cut out automatically by this switch. Switch off the machine. Wait 5 ~ 10 minutes before using the device again. Try to determine the cause of the fault. If the problem repeats itself, please contact our service centre.

Operating instructions

Purpose

The machine is designed to clean vehicles, machines, buildings, facades, etc. in the private sector.

Areas of application

- Never use the machine in potentially explosive areas under any circumstances!
- The operating temperature must be between 0°C and +40°C.
- The machine consists of an assembly with a pump, which is encased in a shock absorbing housing. For an optimal working position the machine comes with a lance and a non-slip handle grip, whose shape and configuration comply with the applicable regulations.
- Do not cover or modify the lance or the spray nozzles in any way.
- The machine is designed to be used with cold or lukewarm (max. 40°C); higher temperatures can damage the pump.
- Do not use water that is dirty, gritty or contains any chemical products, as these could impair operation and shorten the life of the machine.

Assembly

- * Tools needed for assembly: Water supply hose, Hose clamp, Phillips screwdriver.
 - * The water supply hose must have an internal diameter of at least 13mm (1/2 in.) and must be reinforced. The water supply must be at least equal to the washer delivery capacity.
1. Screw the handle (2). (Fig.2)
 2. Fit the cord hook (4) into the hook (24). Power cord can be hung. (Fig. 3)
 3. Fit the spray gun holder (3) into the hook (23). Spray gun (9) can be stored. (Fig. 4)
 4. Connect the wheel (5) and wheel cover (6) to the unit. (Fig.5)
 5. Connecting the nozzle lance to the spray gun. (Fig.6) Fit the nozzle lance (7 and 8) into the spray gun (9) and rotating it until the two parts are completely locked. Test the connection by pulling on the nozzle.
 6. Connect the spray gun hose (10) to the spray gun (9). (Fig.7)
- WARNING!** Water leakage may occur if the hose is not secured properly or if the connectors are not free from dirt and debris prior to connecting.

7. Connecting the spray gun hose to the water discharge nozzle. (Fig. 8)
Secure the spray gun hose (10) directly onto the water discharge nozzle.
WARNING! Jiggling the spray gun hose to the right or left when connecting, may cause water to leak from the connection area.
8. Screw the water connector (12) onto the water inlet (25). (Fig. 9)
9. Attach the water supply hose (16) to the faucet (Fig. 10)
WARNING! Remove dirt and debris from the faucet and from the outside and inside of the hose.
Allow the water from the faucet to run for a short time before attaching the hose.
Dirt or debris entering the unit may cause damage to the pump.
WARNING! Be sure to use water directly from the water faucet. Hot water (over 40°C) and water from hot springs may damage the unit.
Attach the water supply hose (16) to the water faucet with the hose clamp (17).
Tighten the clamp screw to secure the hose to the faucet.
10. Attaching the hose joint to the water supply hose (Fig.11)
Loosen and remove the hose link from the hose joint (13).
Insert the water supply hose (16) through the hose link. Insert the end of the water supply hose securely into the connecting portion of the hose joint.
Securely tighten the hose link onto the hose joint by turning the hose link clockwise.
WARNING! There is a valve attached to the hose joint. Water will not flow out of the hose until it is attached to the water connector.
11. Connecting the hose joint to the water connector (Fig.12)
Push the hose joint (13) onto the water connector (12) until you hear a 'click' sound.
WARNING! Jiggling the water supply hose to the right or left when attaching may cause water to leak from the connection area.

Operating the Switch (Fig.13)

Turning the main switch (18) clockwise to the "ON" position starts the unit. Returning the switch to the "OFF" position cuts electrical power to the unit.

Using the Spray gun (Fig.14)

Pulling the spray gun trigger (20) releases a highly pressurized water flow. Releasing the trigger stops the flow. The spray gun safety lock button (19) prevents accidental operation.

When locked, the trigger cannot be depressed.

Nozzle Lance (Fig. 15)

Changing the spray diffusion (narrow ⇔ wide)

Change the spray diffusion by turning the end of the variable nozzle lance clockwise for narrow spray diffusion and counterclockwise for wide spray diffusion.

Narrow spray ... Water is sprayed in a concentrated direct flow. The narrow spray setting is useful for removing stubborn grime.

Wide Spray Water is sprayed in a widely diffused flow. The wide spray setting is useful for removing dirt from large areas, washing cars, etc.

Operating the Unit

1. Ensure that the main switch (18) is in the OFF position. Plug in the power cord.
2. Turn on the water faucet to the full on position.
3. Release the spray gun safety lock button (19).
4. Water is sprayed from the nozzle when the spray gun trigger is depressed.

Before turning the main switch to the ON position, release all accumulated air from inside the hose and pump by depressing the trigger.

WARNING! Failure to remove the accumulated air from the hose and pump before turning on the main switch may result in decreased pressure and/or damage to the pump and motor.

5. Turn the main switch to the ON position after water begins to flow smoothly from the nozzle while depressing the spray gun trigger.
6. Operate the spray by depressing the spray gun trigger. The motor stops when the spray gun trigger is released. When the trigger is depressed, the motor resumes and pressurized spray is ejected from the nozzle.

WARNING!

- Operate carefully over rough surfaces such as gravel, broken concrete, or crushed stone.
- Avoid excessive friction that could damage the spray gun hose when moving around objects such as fences, blocks, or bricks.
- Ensure that the spray gun hose is straight and free of any kinks or twists before using.
- During initial use, the spray stream may be intermittent and erratic while air is being dispelled from within the pump and hose. When this occurs, continue to depress the trigger until the spray stream stabilizes.
- Be sure to turn the main switch to the OFF position when leaving the unit unattended.
- When spraying, ensure that the spray gun trigger is always depressed and released for intervals lasting longer than 2 seconds in duration. Malfunction of the pressure switch may occur from spray intervals lasting less than 2 seconds.

After Use

1. Turn the main switch to the OFF position.
2. Turn the water faucet off.
3. Depress the spray gun trigger until all water has stopped flowing from the nozzle.
4. Pull the hose joint coupler forward to release the water supply hose from the water connector.
5. Depress the spray gun safety lock button to lock the trigger.
6. Press the release button (26) to remove the spray gun hose (10) from the main unit. (Fig. 16)
7. Remove remaining water from the main unit
Turn the main switch to the ON position for 1-2 seconds to discharge excess water from the spray gun hose connection port.
WARNING! Exercise caution as the released of excess water is highly pressurized
WARNING! Leaving the main switch on for longer than 2 seconds may damage the unit. Be sure to turn the main switch off immediately.
8. Unplug the power cord.
9. Remove the water supply hose from the faucet.
10. Press the release button (27) to remove the spray gun hose (10) from the spray gun (9). (Fig. 17)

WARNING!

Remove all excess water from the main unit, spray gun hose, spray gun and nozzles especially in cold weather. Storing the unit in cold temperatures without removing all excess water may damage the unit and cause malfunction.

Self-priming kit (optional accessory)

Use with alternative water sources (Fig.18)

By attaching self-priming kit, which is an optional accessory, this machine can draw in water from alternative water sources, such as water butts and water containers.

- * Need to prime the hose beforehand to remove the air bubble inside the hose.
- * The discharge pressure will be lower compared with when supplying water from a faucet.

note: Make sure to operate this machine on level ground.

Things to prepare

- Self-priming kit (Fig.19)
- Water for priming the hose (approximately 1L)
- Water container
- Water for cleaning

How to use

WARNING! Make sure to clean the Self-priming filter, the strainer on Self-priming hose, and filter on the machine, before connecting. It will cause low discharge pressure or malfunction of the machine when using with the dust adhered.

1. **Remove spray gun hose from the machine.**
 - Press the release button (26) to remove the spray gun hose (10) from the main unit. (Fig. 16)
2. **Attach Self-priming filter.(Fig.20)**
 - * Remove water supply hose(16) and water connector (12) if they are set.

- Attach Self-priming filter (29) into water inlet by turning clockwise.

note:

- Tighten Self-priming filter straight onto the water inlet by turning it in a clockwise direction(If the filter is not tighten correctly onto the inlet, leaking may occur).
- Make sure that the filters on Self-priming filter and machine are correctly set. Operating without the filters cause the malfunction of the machine.
- Rubber seal is set inside of filter caps of the connector and the Self-priming filter. Please be careful not to lose them when removing.(Fig.21)

3. Attach Self-priming hose onto Self-priming filter. (Fig.22)

- Insert Self-priming hose (30) straight into Self-priming filter(29) and securely tighten by turning the ring (36).
note:Pulling the Self-priming hose forcefully left or right may cause water leakage from the connection part.

4. Remove the strainer from Self-priming hose by turning it. (Fig.23)

- note :** Be careful with the connecting part of strainer as some wire may be come out unexpectedly.

5. Pour water into Self-priming hose from the water supply side. (Fig.24)

- Lift up the self-priming hose higher than the machine, and then pour water (approximately 1L) slowly until the hose is totally filled.
- Set strainer onto Self-priming hose in the reverse order of removing it.

- note :** Make sure to adjust the screw thread of the strainer and hose before tightening to avoid the breakage of the screw thread.

6. Put the strainer into water container filled with water. (Fig.25)

- Make sure that no air enter inside of Self-priming hose.

7. Check whether the water is supplied.(Fig.26)

- Turn on the machine and check whether the water is supplied or not. If there is no problem, turn it off.

Ready to use.

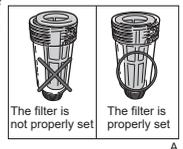
Connect the spray gun hose and start the operation.

When the machine does not suck up water properly or water leakage is occurred, the following cause may be concerned.

- Self-priming filter is not fully tightened.
- Self-priming filter is not properly attached onto water inlet.
- The filter inside of Self-priming filter is not properly set, and there is space between filter and rubber seal.

If the above-problem occurs, remove Self-priming filter and then set it again in the following procedure:

1. Confirm that the filter inside of Self-priming filter is set properly by loosing the filter cap (Fig. A).
2. Hold the filter case vertically and tighten the filter cap securely.
3. Tighten Self-priming filter onto the water inlet of the machine securely.



Maintenance and storage

WARNING! Always disconnect the plug from the socket prior to maintenance or cleaning.

To ensure a long and problem free working life, please take the following advice:

- Wash off water hose, spray gun hose, spray lance and accessories before mounting.
- Clean the connecting part.
- Rinse the foam nozzle after use.

Any repair should always be made by our authorized distributor with genuine spare parts.

Nozzle Cleaning and Maintenance (Fig.27)

- Use the nozzle cleaning pin (14) to regularly clean inside the nozzle.
- Insert the nozzle cleaning pin (14) into the nozzle and remove any foreign matter lodged in the nozzle by tapping the nozzle onto a desk or table with the nozzle opening pointed downward.

If the nozzle is clogged, low spray pressure and/or malfunction of the pressure switch may result.

WARNING! Confirm that the nozzle is free of debris by removing it from the spray gun and visually inspecting inside the opening. Always clean the nozzle opening after removing it from the spray gun.

Cleaning the Filter (Fig.28)

1. Loosen the water connector (12) and remove it from the unit.
2. Remove the filter (22) in the water connector (12).
3. Rinse away any accumulated debris from the filter's mesh.
4. Return the filter to its original position.
5. Reconnect the water connector to the unit.

Ensure that the water connector is threaded straight onto the water connection port before gently rotating it in a clockwise direction. (If the connector is not threaded correctly onto the port, leaking may occur.)

Cleaning of strainer(optional accessory)(Fig.29)

- Flush with running water and remove the dust on the mesh.

note: The clogging of the strainer will cause the decrease of the discharge pressure.

Cleaning of Self-priming filter(optional accessory) (Fig.30 - 31)

1. Remove the filter cap and take out the filter from the filter case.
2. Remove dust on the mesh of filter.
3. Restore the filter and close the filter cap.

note:

- Please be careful not to lose the rubber seals set inside and outside of filter cap.
- When installing the filter cap, make sure that the filter is properly set in the filter case and close the filter cap while holding the case vertically. Self-priming will not work or water leakage will be occurred if the filter is not set properly.
- The clogging of the filter will cause the decrease of the discharge pressure.

Cleaning of machine vents

The machine should be kept clean so as to let cooling air pass freely through air vents.

Storing the Unit

- The hoses, nozzles, and spray gun may be stored on the main unit as shown in Figure 32.

Storage

Pump, hose and accessories should always be emptied of water prior to storing as follows:

1. Long periods of nonuse: If the machine is going to be stored for longer periods of time (i.e. over three months) in a room where frost could develop, it is recommended that the machine be filled with an antifreeze solution (similar to the antifreeze solutions used for vehicles).
2. When the device is not used for an extended period of time, lime deposits begin to form in the motor pump, which in turn can lead to starting difficulties.

NEVER START UP A FROZEN MACHINE.

Frost damages are not covered by the guarantee!

Environmental protection



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.



WARNING: Do not use appliance without reading the instruction sheet



Machine not suitable for connection to the potable water mains



To reduce the risk of injury, user must keep all bystanders at least 15m away. High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, live electrical equipment or the machine itself.

Troubleshooting

Fault	Cause	Remedy
The machine does not run when the ON/OFF switch and spray gun lever are pressed.	The plug is damaged. There is insufficient voltage. The pump is locked. The thermal relay has triggered.	Check the plug and fuses to see if they are okay. Manually turn over the motor. Let the motor cool down.
The machine runs, however only weak pressure is generated.	The intake filter is clogged. Air is being drawn in at the connectors. The inlet and outlet valves are clogged or worn. The diameter of the nozzle hole is too large.	Clean the filter. Check the intake connection fitting and the hose connectors. Clean or replace. Check and replace.
The operating pressure is irregular.	Air is being drawn in. The valves are clogged and worn. The seals are worn.	Check the intake connectors. Clean and replace. Check and replace.
The machine suddenly stops.	The thermal relay has triggered due to overheating.	Check the voltage. Turn off the switch and let the motor cool down for a few minutes.
Water drop from connect pars.	The seals are worn.	Check and replace (professional repair shop)
There is a loss of pressure.	The nozzle is worn. The valves are dirty or clogged. The valve seals are worn. The seals are worn. The filter is clogged.	Change the nozzle. Check, clean, replace. Check and /or replace. Check and /or replace. Check and /or clean.
There is excess noise.	Air is being drawn in. The valves are worn, dirty or clogged. The bearings are worn. The water temperature is too high. The filter is dirty.	Check intake lines. Check, clean, replace. Check and /or replace. Lower the temperature to below 40°C. Check and /or replace.
Expelled water is mixed with oil.	The sealing rings (water + oil) are worn.	Check and /or replace.
Water leaks from the pump head.	The seals are worn. The O-ring of the seal set is worn.	Replace the seal. Replace the O-ring.
When the switch is pressed, the motor hums but does not start.	The mains voltage is lower than that specified. The pump is blocked or frozen. The extension cable is not appropriate. (cross section too small, cable too long)	Check to see that the extension cable is appropriate. Replace the exchange cord to an appropriate one.

Discarding the machine

Carry out the following safety measures immediately, if you are no longer going to use the machine:

- Pull out the plug and make the machine inoperable.
- Store the machine in an area that cannot be reached by children.
- Do not use any parts from the used machine as replacement parts.
- Disassemble the machine and discard the individual parts in accordance with the regulation neforced in your area.

SAVE THESE INSTRUCTIONS

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