



**CAUTION:** Read the instructions before using the machine.

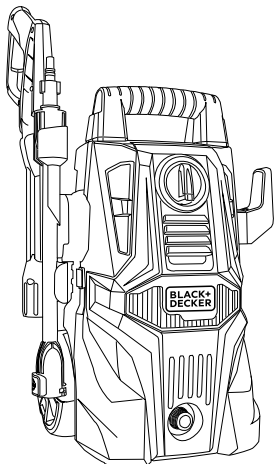
**주의:** 제품을 사용하기 전에 사용설명서를 읽으십시오.

**PERHATIAN:** Baca petunjuk sebelum menggunakan mesin.

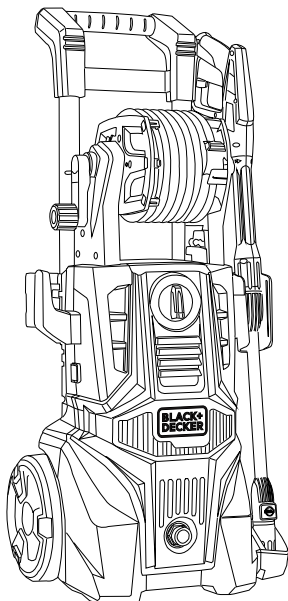
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ใช้งานอุปกรณ์

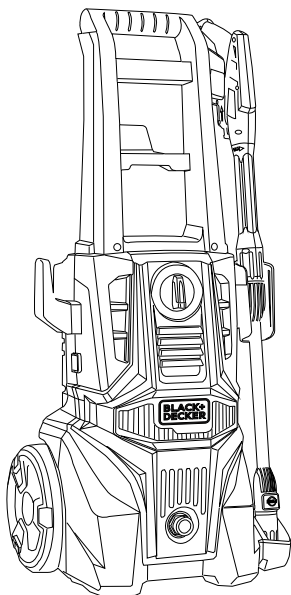
**THẬN TRỌNG** Đọc kỹ hướng dẫn này trước khi sử dụng máy.



**BEPWB1740**  
**BEPWB1740TH/BEPWB1740LP**



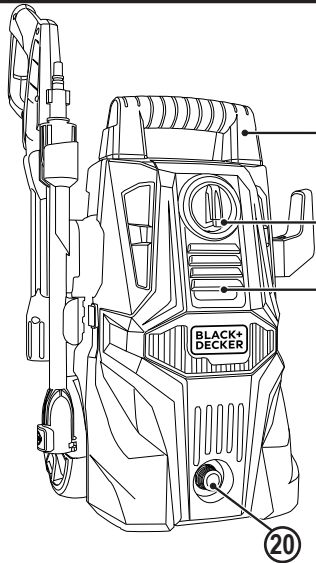
**BEPWB2400/BEPWB2400TH**



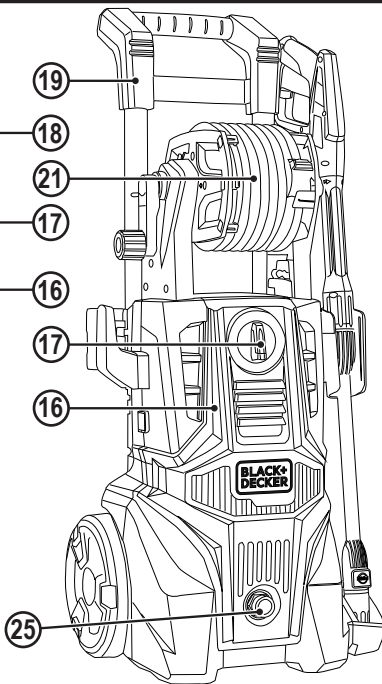
**BEPWB2000/BEPWB2000TH**

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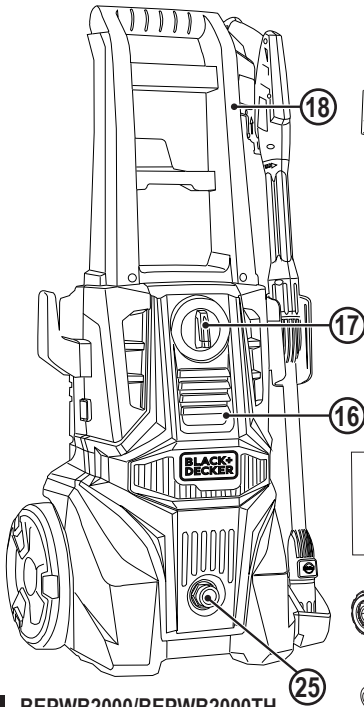
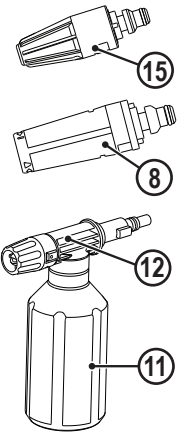
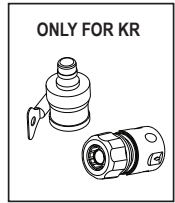
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<b>한국어</b>	<b>22</b>
<b>Bahasa Indonesia</b>	<b>30</b>
<b>ภาษาไทย</b>	<b>41</b>
<b>TIẾNG VIỆT</b>	<b>52</b>



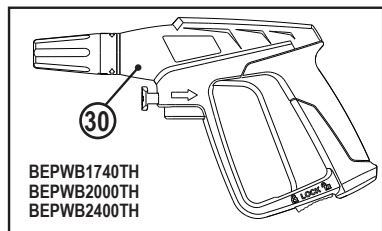
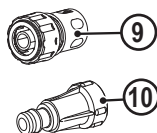
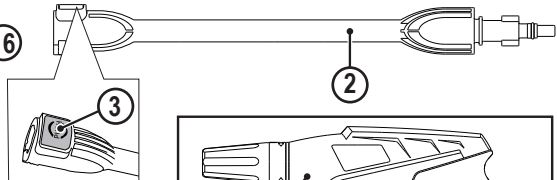
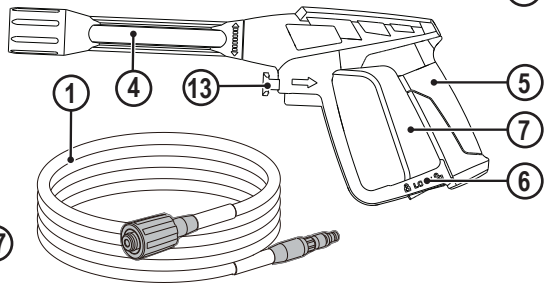
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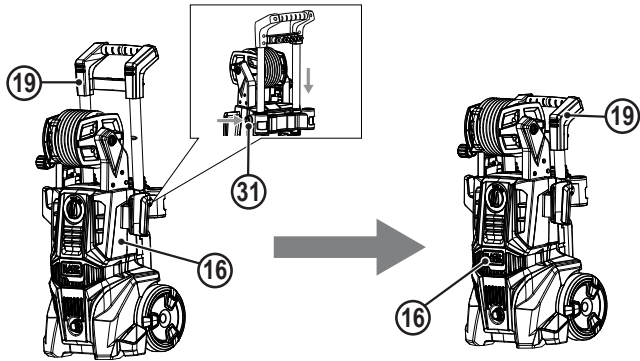
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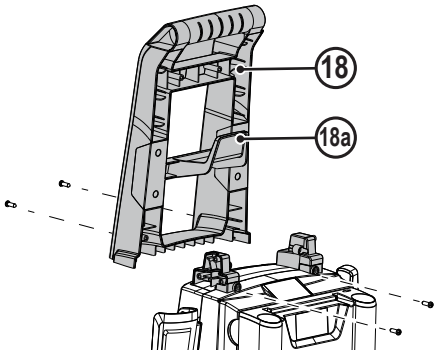
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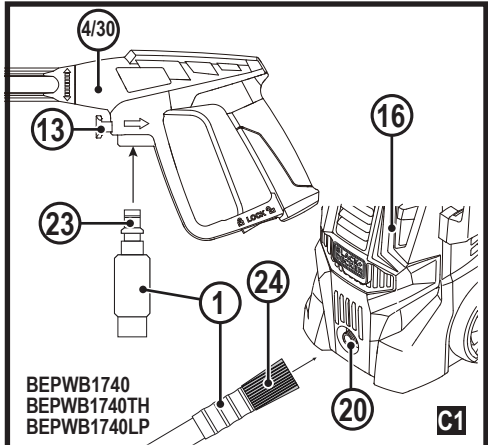
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BEPWB2400TH**



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BEPWB2400TH

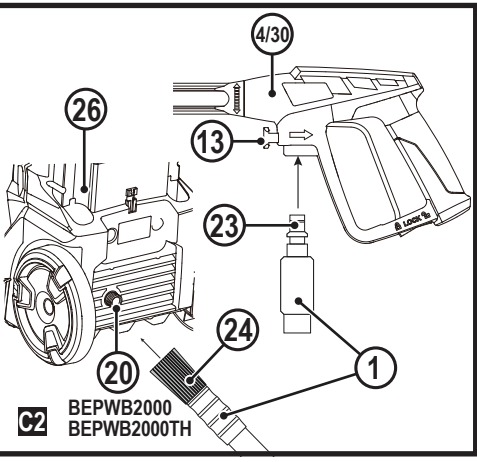


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BEPWB2000TH

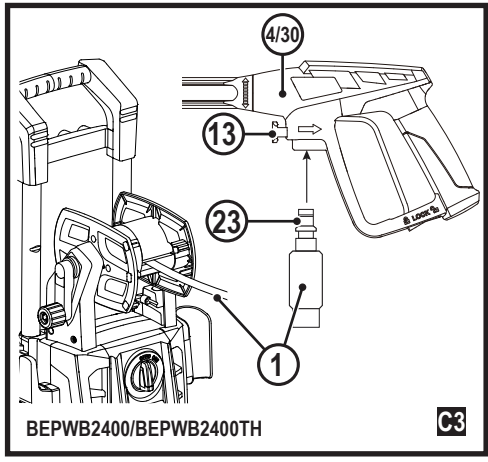


BEPWB1740  
BEPWB1740TH  
BEPWB1740LP

**C1**

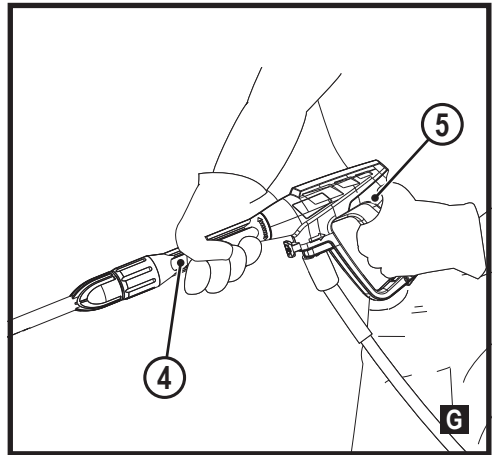
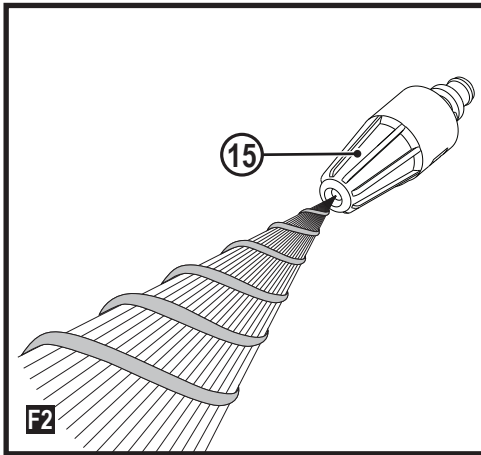
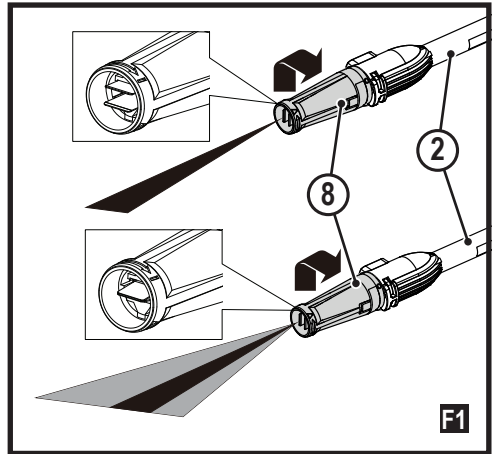
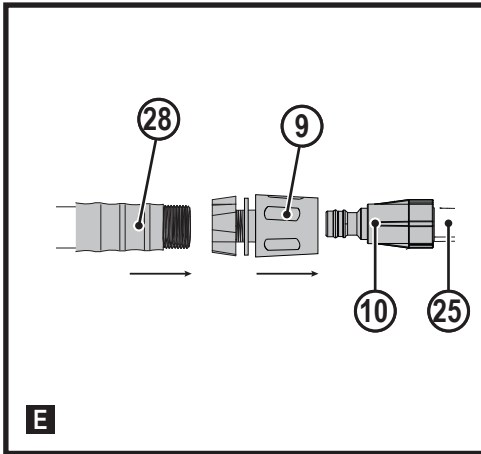
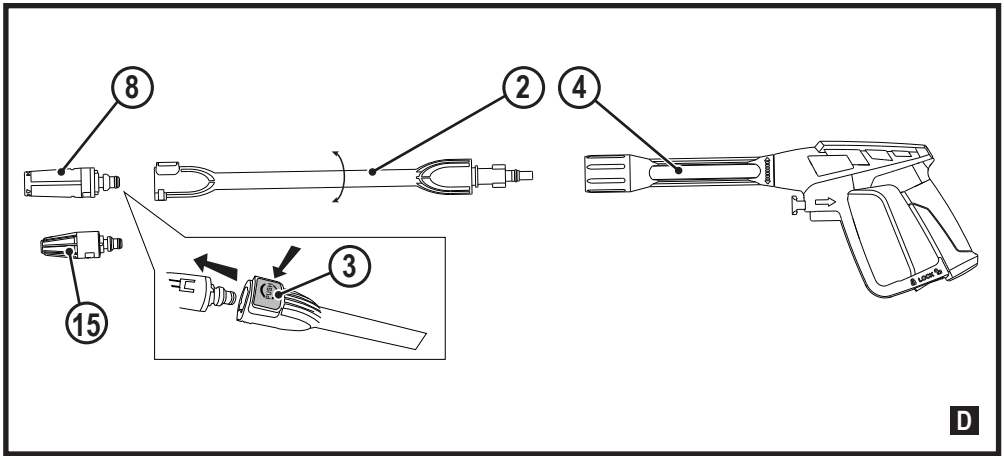


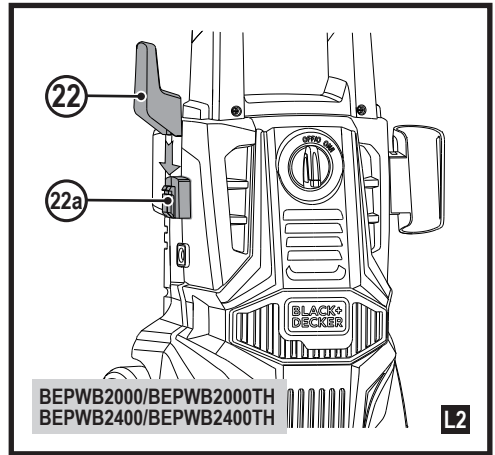
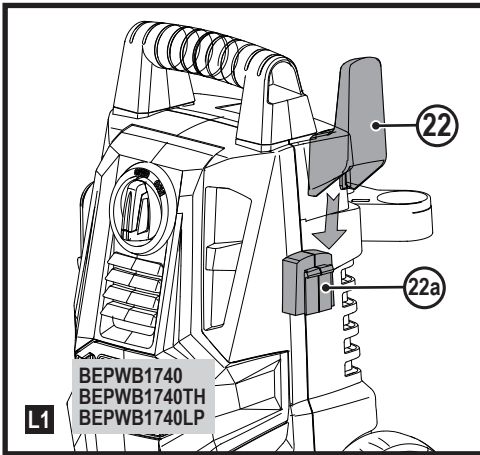
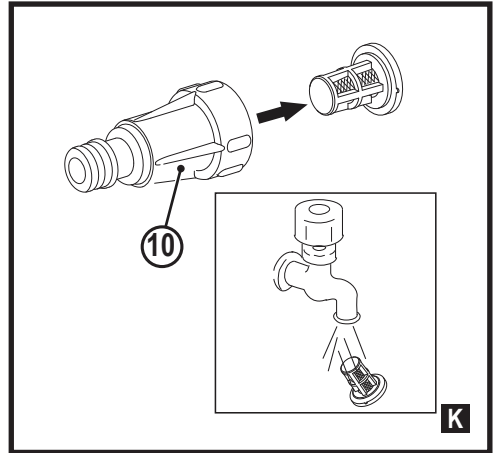
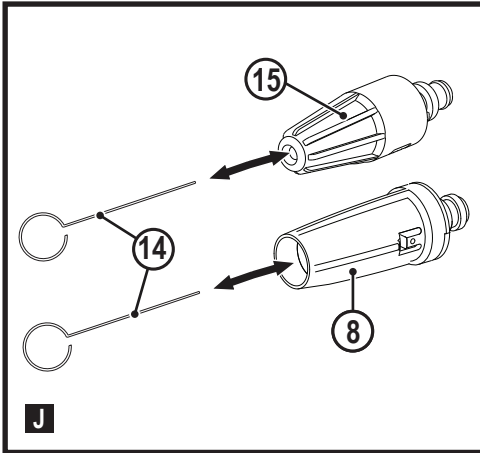
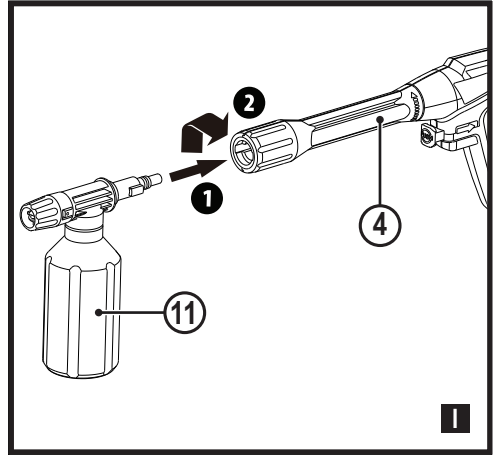
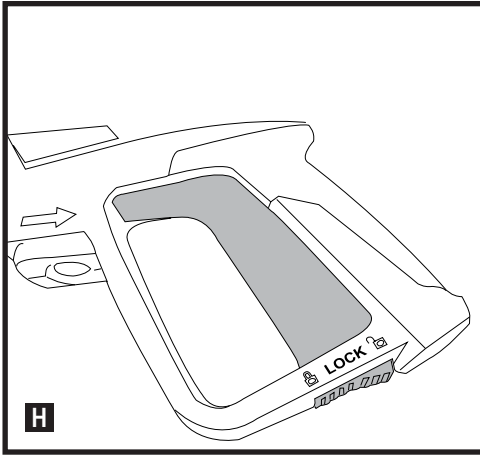
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BEPWB2000TH

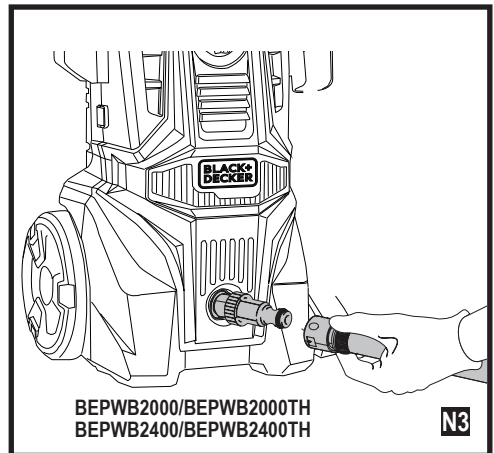
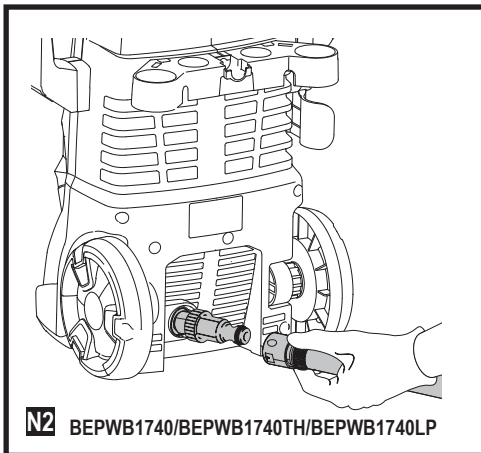
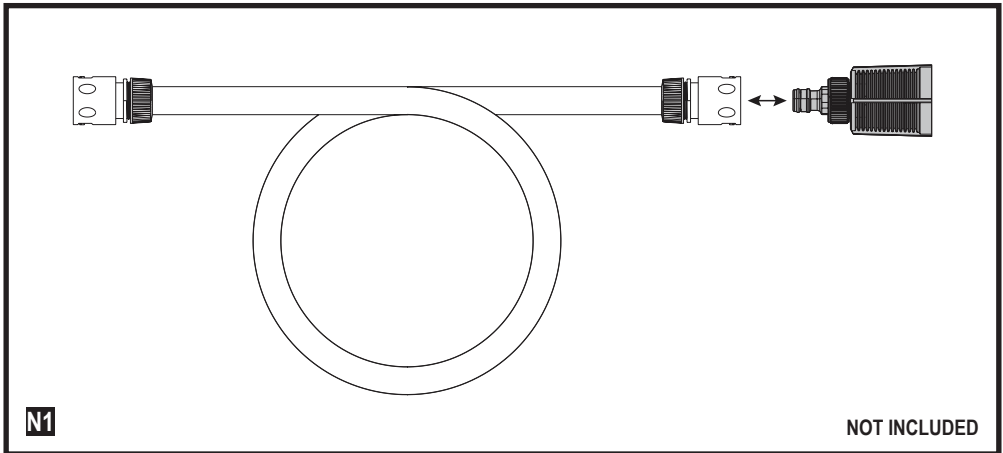
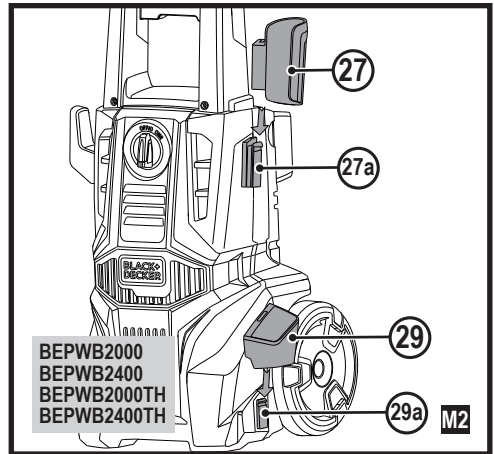
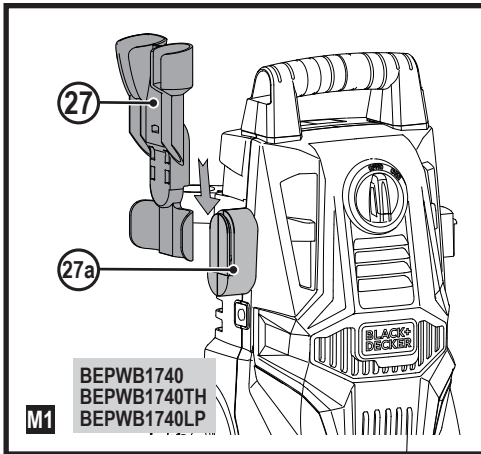


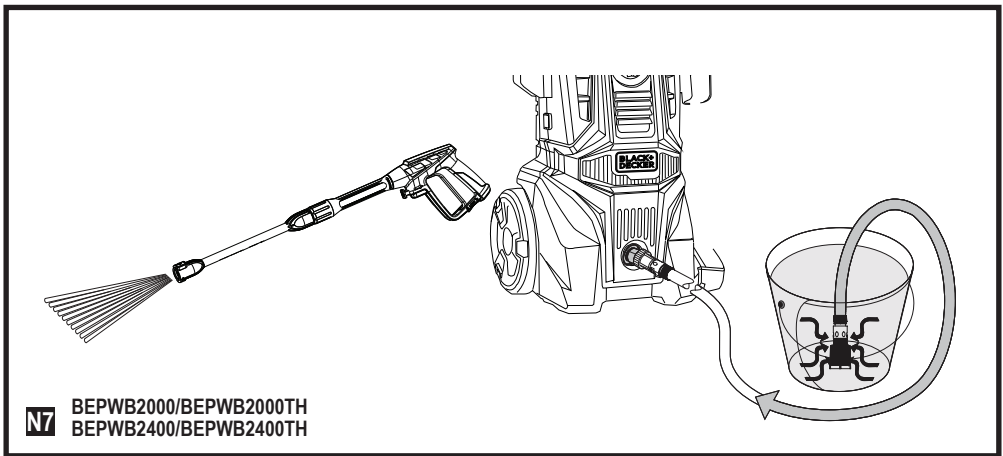
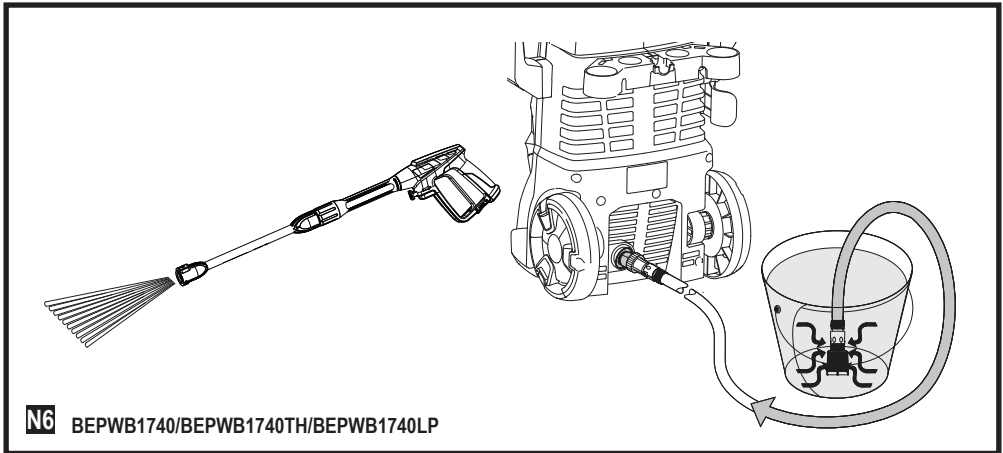
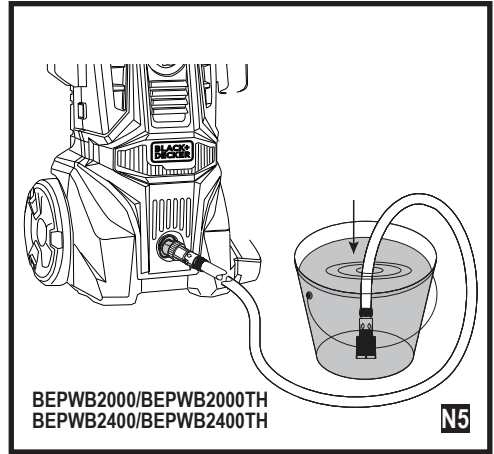
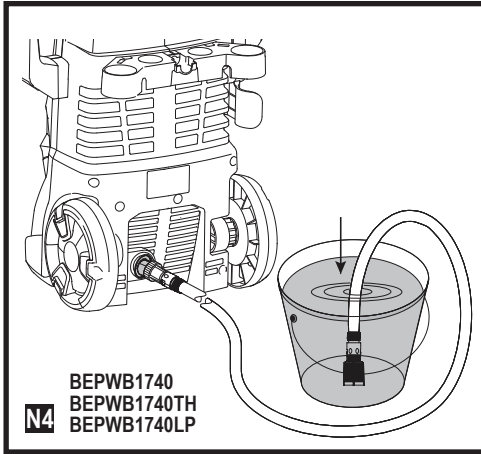
BEPWB2400/BEPWB2400TH

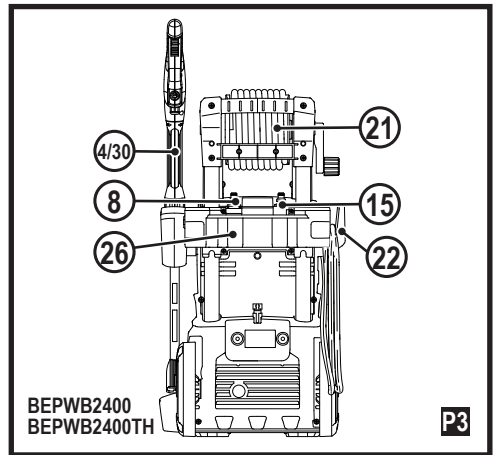
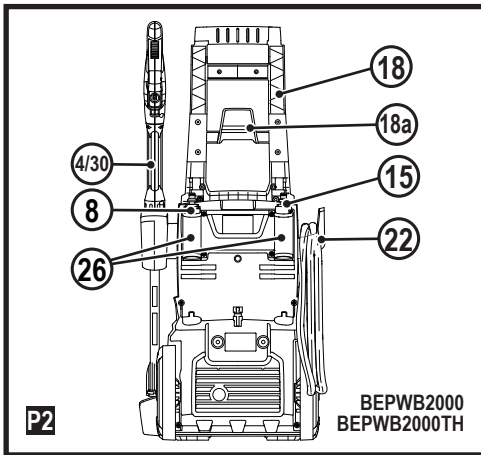
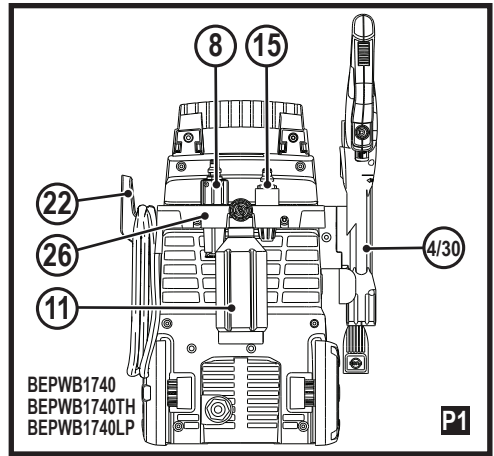
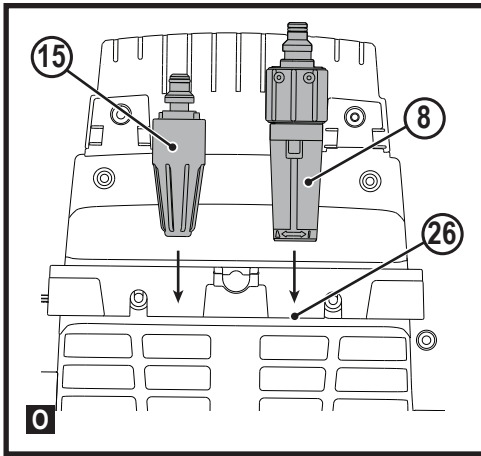
**C3**













# BEPWB1740, BEPWB1740LP, BEPWB2000, BEPWB2400, BEPWB1740TH, BEPWB2000TH, BEPWB2400TH High Pressure Washer

## Technical data

		BEPWB1740 230-240V~ 50Hz	BEPWB1740LP 230-240V~ 50Hz	BEPWB1740 220V~ 60HZ	BEPWB1740TH 220V~ 50HZ
Power	W	1500	900	1500	1500
Rated Flow Rate	L/min	4.8	4.8	4.8	4.8
Max Water Flow Rate	L/min	5.3	5.3	5.3	5.3
Rated Pressure	Bar /PSI	80 / 1160	60 / 870	80 / 1160	80 / 1160
Maximum Pressure	Bar/PSI	120 / 1740	90 / 1300	120 / 1740	120 / 1740
Maximum Inlet Temperature	°C	50	50	50	50
Maximum Input Pressure	Bar	10	10	10	10
Repulsive Force of the Gun to the Maximum Pressure	N	34	34	34	34
Motor Protection		IPX5	IPX5	IPX5	IPX5
Inlet Water		Cold clear Water	Cold clear Water	Cold clear Water	Cold clear Water
Weight	Kg	10.7	10.7	10.7	10.7

		BEPWB2000 230-240V~ 50Hz	BEPWB2000 220V~ 60HZ	BEPWB2000TH 220V~ 50HZ
Power	W	1800	1800	1800
Rated Flow Rate	L/min	5.7	5.7	5.7
Max Water Flow Rate	L/min	6.7	6.5	6.7
Rated Pressure	Bar /PSI	90 / 1305	90 / 1305	90 / 1305
Maximum Pressure	Bar/PSI	135 / 1950	135 / 1950	135 / 1950
Maximum Inlet Temperature	°C	50	50	50
Maximum Input Pressure	Bar	10	10	10
Repulsive Force of the Gun to the Maximum Pressure	N	34	34	34
Motor Protection		IPX5	IPX5	IPX5
Inlet Water		Cold clear Water	Cold clear Water	Cold clear Water
Weight	Kg	14.4	14.4	14.4

		BEPWB2400 230-240V~ 50Hz	BEPWB2400 220V~ 60Hz	BEPWB2400TH 220V~ 50Hz
Power	W	2100	2100	2100
Rated Flow Rate	L/min	5.7	5.7	5.7
Max Water Flow Rate	L/min	6.7	6.5	6.7
Rated Pressure	Bar /PSI	110 / 1595	110 / 1595	110 / 1595
Maximum Pressure	Bar/PSI	165 / 2390	165 / 2390	165 / 2390
Maximum Inlet Temperature	°C	50	50	50
Maximum Input Pressure	Bar	10	10	10
Repulsive Force of the Gun to the Maximum Pressure	N	34	34	34
Motor Protection		IPX5	IPX5	IPX5
Inlet Water		Cold clear Water	Cold clear Water	Cold clear Water
Weight	Kg	16.6	16.6	16.6

**Intended use**

Your BLACK+DECKER BEPWB1740, BEPWB1740LP, BEPWB1740TH, BEPWB2000, BEPWB2000TH, BEPWB2400 and BEPWB2400TH Pressure Washer has been designed for the cleaning of cars, bikes and other outdoor equipment or garden patios, green houses or any other outdoor surface.

**Safety instructions**

**Warning!** When using mains-powered/cordless appliances, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock, personal injury and material damage.



Never direct the water jet at people, animals, the machine or electric components.

**Warning!** High pressure jets can be dangerous if subject to misuse.



**Warning!** According to the applicable regulations, the appliance must never be used on the drinking water network without a system separator. Use a system separator as per IEC 61770 Type BA. Water flowing through a system separator is not considered drinkable.

- ◆ Comply with the regulations of your water supply company.
- ◆ All connecting hoses must have properly sealed joints.
- ◆ Make sure the supply hose is at least 12.7 mm in diameter and is reinforced.
- ◆ The appliance should never be used on the drinking water supply without a backflow valve. Water that has passed the backflow valve is considered undrinkable.

- ◆ Read all of this manual carefully before operating the appliance.
- ◆ The intended use is described in this manual. The use of any accessory or attachment or the performance of any operation with this appliance other than those recommended in this instruction manual may present a risk of personal injury.
- ◆ Retain this manual for future reference.
- ◆ The electric supply connection shall be made by a qualified electrician and comply with IEC 60364-1. It is recommended that the electric supply to this machine should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30 ms or a device that will prove the earth circuit.
- ◆ This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.
- ◆ Children should be supervised to ensure that they do not play with the appliance.
- ◆ If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- ◆ **WARNING:** This machine has been designed for use with the cleaning agent supplied or recommended by the manufacturer. The use of other cleaning agents or chemicals may adversely affect the safety of the machine.
- ◆ **WARNING:** During use of high pressure cleaners, aerosols may be formed. Inhalation of aerosols can be hazardous to health.
- ◆ **WARNING:** 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.
- ◆ **WARNING:** Do not use the machine within range of persons unless they wear protective clothing.
- ◆ **WARNING:** Do not direct the jet against yourself or others in order to clean clothes or foot-wear.
- ◆ **WARNING:** Risk of explosion – Do not spray flammable liquids.
- ◆ **WARNING:** High pressure cleaners shall not be used by children or untrained personnel.
- ◆ **WARNING:** High pressure hoses, fittings and couplings are important for the safety of the machine. Use only hoses, fittings and couplings recommended by the manufacturer.
- ◆ **WARNING:** To ensure machine safety, use only original spare parts from the manufacturer or approved by the manufacturer.
- ◆ **WARNING:** Water that has flowed through backflow preventers is considered to be nonpotable.
- ◆ **WARNING:** 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.

- ◆ **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 and off the ground. It is recommended that this is accomplished by means of a cord reel which keeps the socket at least 60 mm above the ground.
- ◆ **WARNING:** Do not use combustion engine powered machines indoors unless adequate ventilation is assessed by national labour authorities.
- ◆ **WARNING:** Ensure that any exhaust emissions are not in the vicinity of air intakes.
- ◆ **WARNING:** Always switch off the mains disconnecting switch when leaving the machine unattended.
- ◆ **WARNING:** Depending on the application, shielded nozzles can be used for high pressure cleaning, which will reduce the emission of hydrous aerosols dramatically. However, not all applications allow the use of such a device. If shielded nozzles are not applicable for the protection against aerosols, a respiratory mask of class FFP 2 or equivalent may be needed, depending on the cleaning environment.
- ◆ The appliance is not to be used if it has been dropped, if there are visible signs of damage or if it is leaking.
- ◆ Always use safety glasses or goggles.
- ◆ This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. Never operate the machine while people, especially children, or pets are nearby.
- ◆ Do not allow children or animals to come near the work area or to touch the appliance or power supply cord.
- ◆ Close supervision is necessary when the appliance is used near children.
- ◆ This appliance is not intended for use by young or infirm persons without supervision.
- ◆ This appliance is not to be used as a toy.
- ◆ Only use the appliance in daylight or good artificial light.
- ◆ Use in a dry location only. Do not allow the appliance to become wet.
- ◆ Avoid using the appliance in bad weather conditions, especially when there is a risk of lightning.
- ◆ Do not immerse the appliance in water.
- ◆ Do not open the body casing. There are not user-serviceable parts inside.
- ◆ Do not operate the appliance in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- ◆ The appliance is only to be used with the power supply unit provided with the

## Using your appliance

Always take care when using the appliance.

- ◆ The water stream must not be directed towards equipment containing electrical components, such as the interior of ovens.

appliance.

- ◆ The machine is intended to be used at a temperature above 0 degree.
- ◆ The operating method to be followed in the event of accident (e.g. contact with detergents: rinse with an abundance of clean water) or breakdown to prevent unsafe situations.
- ◆ This machine has been designed for use with the cleaning agent supplied or recommended by the manufacturer. Carefully observe all chemical instructions and warnings before using. Use only approved pressure washer cleaners. Do not use bleach, chlorine, or any cleaners containing acids. Always follow manufacturer's label recommendations for proper use of cleaners.
- ◆ Use safety glasses. Everyday eyeglasses are NOT safety glasses. Also use face or dust mask if operation is dusty. **ALWAYS WEAR CERTIFIED SAFETY EQUIPMENT.**
- ◆ Do not direct the jet against yourself or others in order to clean clothes or foot-wear.
- ◆ Water that has flown through backflow preventers is considered to be non-potable.
- ◆ The machine shall 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.
- ◆ If an extension cord is used, the plug

and socket must be of watertight construction.

- ◆ In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
- ◆ Know how to stop the machine and bleed pressures quickly. Be thoroughly familiar with the controls.
- ◆ Do not operate the machine when fatigued or under the influence of alcohol or drugs.
- ◆ When the machine is turned on, the interior pump starts and continues to run even if the pressure wand trigger has not been depressed.
- ◆ When the machine is running, please maintain a constant water supply. Without water circulation will damage the sealing rings of the machine.
- ◆ It is necessary to turn on the spray lance within one or two minutes after the machine has been started, in order to avoid damage to the sealing rings inside the machine.
- ◆ Be aware of the recoil caused by the water jet when the machine is switched on.
- ◆ When the machine is installed, the machine must be in flat position. To move the machine, pull by the handle.
- ◆ The machines are not suitable for connection to potable water mains. Connect the machine to the water

- supply. (It can be a water container).
- ◆ The inlet pipe should at least be 5 M long. Do not use the pipe if the pipe is damaged. If you want connect this machine to potable 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 IEC 60335-2-79 ANNEX AA.

### Residual risks.

Additional residual risks may arise when using the appliance which may not be included in the enclosed safety warnings. These risks can arise from misuse, prolonged use etc.

Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks can not be avoided.

These include:

- ◆ Injuries caused by touching any rotating/moving parts.
- ◆ Injuries caused when changing any parts, blades or accessories.
- ◆ Injuries caused by prolonged use of a appliance. When using any appliance for prolonged periods ensure you take regular breaks.
- ◆ Impairment of hearing.
- ◆ Health hazards caused by breathing dust developed when using your appliance (example:- working with wood, especially oak, beech and MDF.)

- ◆ When not in use, the appliance should be stored in a dry, well ventilated place out of reach of children.
- ◆ Children should not have access to stored appliances.
- ◆ When the appliance is stored or transported in a vehicle it should be placed in the boot or restrained to prevent movement following sudden changes in speed or direction.

### Inspection and repairs

- ◆ Before use, check the appliance for damaged or defective parts. Check for breakage of parts and any other conditions that may affect its operation.
- ◆ Do not use the appliance if any part is damaged or defective.
- ◆ Have any damaged or defective parts repaired or replaced by an authorised repair agent.
- ◆ Never attempt to remove or replace any parts other than those specified in this manual.

### Additional safety instructions for pressure cleaners

The intended use is described in this manual. The use of any accessory or attachment or performance of any operation with this appliance other than those recommended in this instruction manual can present a risk of personal injury and/or damage to property.

- ◆ To protect your feet and legs while operating the appliance, always wear heavy duty footwear and long trousers.

### After use

- ◆ Always switch off your product, allow the pump to stop when:
  - ◆ You leave your product unattended.
  - ◆ Clearing a blockage.
  - ◆ Checking, adjusting, cleaning or working on your product.
  - ◆ If the appliance starts to vibrate abnormally.
- ◆ Do not place the inlet or outlet of the pressure cleaner near eyes or ears when operating. Never point in the direction of bystanders.
- ◆ Do not use the appliance when there are other persons around unless they are also wearing protective clothing.
- ◆ Do not use in the rain or leave outdoors while it is raining.
- ◆ High-pressure jets can be dangerous if improperly used. The jet may not be directed at persons, animals, live electrical equipment or at the appliance itself.
- ◆ The high-pressure jet must not be directed at other persons or the user him-/herself to clean clothing or footwear.
- ◆ Vehicle tyres/tyre valves are susceptible to damage from the high-pressure jet and may burst. The first indication for this is a discolouration of the tyre. Damaged vehicle tyres/tyre valves are dangerous. Keep a minimum jet distance of 30 cm during cleaning!
- ◆ Create stability for the appliance prior to any work on or with the appliance to prevent accidents or damage.
- ◆ The water jet that is emitted from the high-pressure nozzle results in a repulsion power acting on the hand spray gun. Make sure that you have a firm footing and are also holding the hand spray gun and spray lance firmly.
- ◆ The appliance may not be operated in explosive atmospheres.
- ◆ Never use the appliance to clean objects containing hazardous substances (e.g. asbestos).
- ◆ Do not spray flammable liquids.
- ◆ Never draw in fluids containing solvents or undiluted acids and solvents! This includes petrol, paint thinner and heating oil. The spray mist is highly inflammable, explosive and poisonous. Do not use acetone, undiluted acids and solvents, as they corrode the materials used on the appliance.
- ◆ High-pressure hoses, fixtures and couplings are important for the safety of the appliance. Only use high-pressure hoses, fixtures and couplings recommended by the manufacturer.
- ◆ When disconnecting the supply or high pressure hose, hot water may leak from the connections after operation.
- ◆ Mind the weight of the appliance when selecting the storage location and during transport (see technical data) to prevent accidents or injuries.
- ◆ Several hours of continuous use of the appliance can lead to numbness in the hands in rare cases.
  - ◆ Wear gloves.

- ◆ Keep hands warm.
- ◆ Take breaks at regular intervals.
- ◆ During the use of high-pressure cleaners aerosols can develop. Inhaling aerosols can cause health damage.
  - ◆ Depending on the application, completely shielded nozzles (e.g. surface cleaner) that significantly reduce the emission of aqueous aerosols can be used for highpressure cleaning.
  - ◆ The use of such shielding is not possible with all applications.
  - ◆ If the use of a completely shielded nozzle is not possible, a respirator of the category FFP 2 or the like should be used, depending on the environment to be cleaned.
- ◆ Do not place your unit down on gravel while it is switched on.
- ◆ Always be sure of your footing, particularly on slopes. Do not overreach and keep your balance at all times.
- ◆ For safety reasons, we recommend that you operate the appliance only via a residual current device (max. 30 mA).
- ◆ An unsuitable electrical extension cable can be hazardous. Only use an electrical extension cable which has been approved and labelled for this purpose and has an adequate cable cross-section outdoors: 1 - 10 m: 1.5 mm<sup>2</sup>; 10 - 30 m: 2.5 mm<sup>2</sup>
- ◆ Always fully unreel the extension

cable from the cable drum.

- ◆ Do not place any objects into the openings. Never use if the openings are blocked - keep free of hair, lint, dust and anything that may reduce the airflow.

**Warning!** Always use your product in the manner outlined in this manual.

Your product is designed to be used in an upright mode and if it is used in any other way it may result in injury.

Never run your product whilst lying on it's side or upside down.

- ◆ The operator or user is responsible for accidents or hazards occurring to other people or their property.
- ◆ Do not use solvents or cleaning fluids to clean your product.
- ◆ Keep all nuts bolts and screws tight to make sure that the appliance is in a safe working condition.

## Safety of others

- ◆ This machine can be used by people with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the machine in a safe way and understand the hazards involved.
- ◆ Machines shall not be used by children. Children should be supervised to ensure that they do not play with the machine.

## Electrical safety





Your machine is double insulated; therefore no earth wire is required. Always check that the main voltage corresponds to the voltage on the rating plate.

- ◆ If the supply cord is damaged, it must be replaced by the manufacturer or an authorised BLACK+DECKER Service Centre in order to avoid a hazard.

### Labels on appliance

The following warning symbols are found on the appliance along with the date code:



Read the manual prior to operation.



Wear safety glasses or goggles when operating this appliance.



Wear suitable ear protectors when operating this appliance.



Machine not suitable for connection to the potable water mains.



Never direct the water jet at people, animals, the machine or electric components

### Features

This appliance includes some or all of the following features.

1. High pressure hose
2. Spray wand
3. Nozzle button
4. Spray handle
5. Spray handle grip
6. Trigger lock-off
7. Trigger
8. Spray fan to pencil jet nozzle
9. Hose connector
10. Filter
11. Foam Producer
12. Foam Producer applicator
13. Hose connect button
14. Nozzle cleaning tool
15. Turbo nozzle

16. Pressure washer unit
17. ON/OFF dial
18. Handle
19. Retractable handle (BEPWB2400, BEPWB2400TH)
20. High pressure water outlet
21. Hose reel
22. Cord retaining hook
23. Pressure hose end
24. Pressure hose collar
25. Water intake
26. Nozzle holster
27. Spray handle holster
28. Garden hose collar
29. Spray handle / nozzle support
30. Short spray handle (only BEPWB1740TH, BEPWB2000TH, BEPWB2400TH)
31. Handle release button (only BEPWB2400, BEPWB2400TH)

### Assembly

**Warning!** To reduce the risk of serious personal injury, turn unit off and disconnect it from power source before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

### Automatic ON/OFF:

The motor on this pressure washer does not run continuously. It only runs when the trigger of the spray gun is squeezed. After following the start up procedures in this manual, turn the pressure washer ON and squeeze the trigger for activation. See "Operating Instruction" section in this manual for further details.

### Bleeding the Gun:

It is very important to bleed the gun before using the pressure washer. Squeeze the trigger to allow any air that is trapped inside of the unit and hose to escape. Continue to squeeze trigger until a steady stream of water comes from the nozzle. (This process may take up to 2 minutes). See "Operating Instructions" section for this process.

### Attaching Handle (Fig. B1)

#### BEPWB2000 / BEPWB2000TH

Press the handle (18) onto the pressure washer unit (16) and secure with the screws supplied. Do not overtighten.

#### Retractable Handle (Fig. A, B2)

#### BEPWB2400 / BEPWB2400TH

This pressure washer has a convenient, built in retractable handle and transport wheels.

- ◆ To unlock the retractable handle ( 19 ), press the handle

release button ( 31 ) and slide the handle upwards. You will hear an audible click when it snaps into position.

- ◆ To store the retractable handle ( 19 ), press the handle release button ( 31 ) and slide the retractable handle down and into the pressure washer body. You will hear an audible click when it snaps into position.
- ◆ To move the pressure washer ( 16 ), tilt the unit so the transport wheels are touching the ground and pull the unit by the retractable handle.

**Attaching cord retainer (Fig. L)**

Slide cord retainer (22) from the top onto the support (22A) on the machine until it makes "click".

**Attaching spray handle holster and spray handle / nozzle support (Fig. M)**

Slide spray handle holster (27) from the top onto the support (27A) on the machine until it makes "click".

**Attaching High Pressure Hose (Fig. C1, C2, C3)**

**Notice:** Never pull high pressure hose or water supply hose to move pressure washer. This could damage hose and/or pump inlet and/or pump outlet.

- ◆ To connect the high pressure hose ( 1 ) to the spray handle ( 4/30 ), depress the hose connect button ( 13 ) while clicking the hose end ( 23 ) into the spray handle. Release the hose connect button when the hose end has clicked into position.
- ◆ To connect the high pressure hose to the pressure washer unit ( 16 ), screw the hose collar ( 24 ) onto the high pressure water outlet ( 20 ).

BEPWB1740/BEPWB1740/BEPWB1740LP,  
BEPWB2000/BEPWB2000TH

- ◆ To connect the high pressure hose ( 1 ) to the spray handle ( 4/30 ), depress the hose connect button ( 13 ) while clicking the hose end ( 23 ) into the spray handle. Release the hose connect button when the hose end has clicked into position.

**Note:** Uncoil the high pressure hose before installation to prevent kinks.

**Note:** Avoid cross threading when installing the hose. Cross threading will cause leaks.

**Attaching Spray Handle (Fig. D)**

- ◆ To connect the spray handle ( 4/30 ) to the spray wand ( 2 ), insert the end of the spray handle onto the end of the spray wand.
- ◆ Press in and turn the spray handle counterclockwise to lock it into position.

**Attaching Garden Hose (Fig. E, N2, N3)**

**Note:** Before connecting the garden hose to the pressure washer unit, run water through the garden hose for thirty seconds to clear any debris from inside the garden hose.

- ◆ To connect the garden hose to the pressure washer unit ( 16 ), screw the filter ( 10 ) to the water intake ( 25 ).
- ◆ Connect the garden hose ( 28 ) to the hose connector ( 9 ) by loosening the screw of the garden connector and attaching the hose onto the connector.
- ◆ Attach the garden hose ( 28 ) mounted onto the garden connector to the filter ( 10 ) until it "clicks".

**Note:** Always disconnect the garden hose after usage.

**Attaching Nozzles (Fig. A, D)**

**Danger!** Risk of fluid injection. Do not direct discharge stream toward persons, unprotected skin, eyes or any pets or animals. Serious injury will occur.

**Warning!** Flying objects could cause risk of serious injury. DO NOT attempt to change nozzles while pressure washer is running. Turn pressure washer unit OFF before changing nozzles.

- ◆ To connect a nozzle to the spray wand ( 2 ), depress the nozzle button ( 3 ) on the spray wand and insert the appropriate nozzle.
- ◆ Release the button to lock the nozzle in place.
- ◆ Give the nozzle a firm tug to ensure the nozzle is locked into place.

**Note:** 60° fan nozzle just fits to the short spray handle not to the standard spray handle.

**Spray Fan to Pencil Jet Nozzle**

**Adjusting Fan Pattern (Fig. F1, F2)**

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

A wide fan pattern distributes 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.

A narrow pencil jet stream distributes the impact of the water in a concentrated area, resulting in a high impact force on the cleaning surface. Use a narrow pencil jet stream for deep cleaning in a concentrated area. However, use it cautiously, as it may damage some surfaces.

Spray Tip	Application
Spray fan to pencil jet nozzle	For gentle wide area cleaning.
Turbo Nozzle	For abrasive cleaning.

**Attaching Foam Producer (Fig. I)**

To connect the Foam Producer ( 11 ) to the spray handle ( 4 ),

insert the end of the Foam Producer inside the spray handle and turn the Foam Producer counterclockwise to lock it into position.

**Note:** The wand and Foam Producer cannot be installed at the same time.

**Note:** The Foam Producer should be positioned underneath the barrel of the spray handle. Do not position the Foam Producer above the barrel of the plastic gun as this will lead to soap dripping on the barrel.

## Operation

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

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

- ◆ Connect the outlet hose to the washer and connect the spray gun to the outlet hose.
- ◆ Connect nozzle and nozzle extension.
- ◆ Check gauze filter is clear of any blockage.
- ◆ Connect the water supply hose.
- ◆ Check that the hose has no kinks in it.
- ◆ Turn on water and check for leaks.
- ◆ Depress trigger to allow air to be expelled through the pump and hoses, lock trigger.
- ◆ Plug in machine and turn on switch.
- ◆ Unlock trigger and use the pressure washer.

## Shut down

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

**Caution:** ALWAYS turn off the unit's motor BEFORE turning off the unit's water supply. Serious damage could occur to the motor if the unit is run without water.

**Caution:** NEVER 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.

## Proper Hand Position (Fig. G)

**Warning!** To reduce the risk of serious personal injury, always use proper hand position as shown.

**Warning!** To reduce the risk of serious personal injury, always hold securely in anticipation of a sudden reaction.

Proper hand position requires one hand on the spray handle grip ( 5 ) and the other hand on the spray handle ( 4 ) .

## Cleaning pin instruction (Fig. J)

- ◆ Using included tip cleaner, or an unfolded paper clip,

insert wire into the nozzle hole and move back and forth until debris is dislodged.

- ◆ Remove additional debris by back-flushing water through the nozzle. To do this, place end of a garden hose ( with water running ) to the end of nozzle for 30-60 seconds.

## Filter Cleaning (Fig. K)

Inspect the filter before each use and clean if necessary. Remove the filter element and run under clear water to remove any debris.

## Self Priming (Fig. C, E, N1, N2, N3, N4, N5, N6, N7)

- ◆ Connect the inlet hose to the pressure washer. Refer to **Attaching Garden Hose** under **Assembly**.
- ◆ Place the free end of the hose with filter attached into the alternative water source (e.g. bucket, etc.)
- ◆ Connect the high pressure hose to the spray handle. Please refer to **Attaching High Pressure Hose** under **Assembly**.
- ◆ Plug the pressure washer unit into a power source.
- ◆ Actuate the pressure washer by rotating the ON/OFF dial to the ON position .
- ◆ Turn OFF the pressure washer as soon as water is spraying out of the outlet tube of the unit.
- ◆ Unplug the pressure washer unit from the power source.
- ◆ Assemble the high pressure hose to the high pressure water outlet.
- ◆ Plug the pressure washer unit into a power source.
- ◆ Actuate the pressure washer by rotating the ON/OFF dial to the ON position.
- ◆ Actuate the trigger of the spray handle to start cleaning work.

## Maintenance

**Warning!** To reduce the risk of serious personal injury, turn unit off and remove plug from power source before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

## Cleaning

**Warning!** Blow dirt and dust out of all air vents with clean, dry air at least once a week.

To minimize the risk of eye injury, always wear eye protection when performing this procedure.

**Warning!** Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the appliance. These chemicals may weaken the plastic materials used in these parts. Use a cloth dampened only with water and mild soap. Never let any liquid get inside the appliance; never immerse any part of the appliance into a liquid.

### Storage (Fig. O, P)

- ◆ Store in a dry, covered location above freezing temperature. STORE INDOORS.
- ◆ Always completely empty water from high pressure hose, pressure washer unit, nozzles, and spray wand.
- ◆ Nozzles can be stored in the unit as shown in Fig. O.

**Note:** the turbo or pencil to fan nozzles can also be stored on the wand.

- ◆ Power cord can be stored coiled up and secured with the cord retaining hooks ( 22 ) as shown in Fig. P.
- ◆ High pressure hose ( 1 ) can be stored coiled up and secured to the handle (18) with the help of the hook (18a) (BEPWB2000/BEPWB2000TH).
- ◆ The spray handle with the assembled wand and nozzle can be stored in the holster ( 26 ) at the side of the machine (Fig. P).

### Accessories

**Warning!** Since accessories, other than those offered by BLACK+DECKER, have not been tested with this product, use of such accessories with this appliance could be hazardous. To reduce the risk of injury, only BLACK+DECKER recommended accessories should be used with this product. Recommended accessories for use with your appliance are available at extra cost from your local dealer or authorized service center.

If you need assistance in locating any accessory, please contact [www.blackanddecker.com](http://www.blackanddecker.com).

### Protecting the environment



Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

Products and batteries contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products and batteries according to local provisions.

### Troubleshooting

Symptom	Possible Cause(s)	Solution
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<b>When switched on the machine will not start working</b>	1. Plug is not well connected or electric socket is faulty	1. Check plug, socket
	2. The main voltage is insufficient, lower than minimum requirement	2. Check that the main voltage is adequate.
	3. The pump is stuck.	3. Refer to after storage instructions.
	4. Thermal safety switch has tripped.	4. Switch off the unit and let the motor cool for a few minutes 5. Leave the lance open
<b>Fluctuating Pressure</b>	1. Pump sucking air.	1. Check that hoses and connections are airtight.
	2. Valves dirty, worn out or stuck. Pump seals worn out.	2. Clean and replace, or refer to dealer.
<b>Water leaking from the pump.</b>	Seals worn out.	Check and replace, or refer to dealer.
<b>The motor stops suddenly.</b>	Thermal safety switch has tripped due to overheating.	Check that the main voltage corresponds to specifications. Switch off the unit and let it cool for a few minutes.
<b>The pump doesn't reach the necessary pressure.</b>	1. Water inlet filter is clogged.	1. Clean the water inlet filter.
	2. Pump sucking air from connections or hoses.	2. Check that all supply connections are tight.
	3. Suction/ delivery valves are clogged or worn out.	3. Check that the water feeding hose is not leaking.
	4. Unloaded valve is stuck.	4. Clear or replace valves.
	5. Lance nozzle incorrect or worn out.	5. Loosen and re-tighten regulation screw. 6. Check and/or replace.

### Service Information

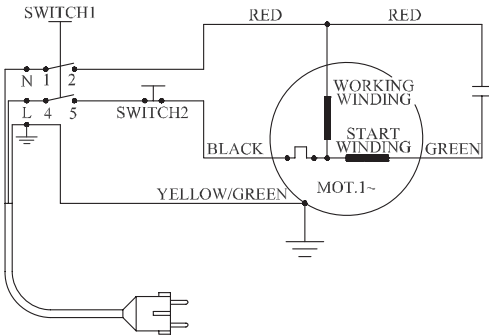
BLACK+DECKER offers a full network of company-owned and authorized service locations throughout Asia. All BLACK+DECKER Service Centers are staffed with trained personnel to provide customers with efficient and reliable product service.

Whether you need technical advice, repair, or genuine factory replacement parts, contact the BLACK+DECKER location nearest to you.

### Note

- ◆ BLACK+DECKER's policy is one of continuous improvement to our products and, as such, we reserve the right to change product specifications without prior notice.
- ◆ Standard equipment and accessories may vary by country.
- ◆ Product specifications may differ by country.
- ◆ Complete product range may not be available in all countries. Contact your local BLACK+DECKER dealers for range availability.

### ELECTRICAL DIAGRAM



Black & Decker (U.S.) Inc.  
701 East Joppa Rd, Towson, Maryland 21286 U.S.A

# BEPWB1740, BEPWB1740LP, BEPWB2000, BEPWB2400, BEPWB1740TH, BEPWB2000TH, BEPWB2400TH

## 고압세척기

### 기술 데이터

		BEPWB1740 230-240V~ 50HZ	BEPWB1740LP 230-240V~ 50HZ	BEPWB1740 220V~ 60HZ	BEPWB1740TH 220V~ 50HZ
전력	W	1500	900	1500	1500
정격 유량	L/분	4.8	4.8	4.8	4.8
최대 유량	L/분	5.3	5.3	5.3	5.3
정격 압력	Bar /PSI	80 / 1160	60 / 870	80 / 1160	80 / 1160
최대 압력	Bar/PSI	120 / 1740	90 / 1300	120 / 1740	120 / 1740
최대 주입구 온도	°C	50	50	50	50
최대 입력 압력	Bar	10	10	10	10
최대 압력에 대한 고압건 반발력	N	34	34	34	34
모터 보호		IPX5	IPX5	IPX5	IPX5
사용되는 용수		차갑고 맑은 물	차갑고 맑은 물	차갑고 맑은 물	차갑고 맑은 물
무게	Kg	10.7	10.7	10.7	10.7

		BEPWB2000 230-240V~ 50HZ	BEPWB2000 220V~ 60HZ	BEPWB2000TH 220V~ 50HZ
전력	W	1800	1800	1800
정격 유량	L/분	5.7	5.7	5.7
최대 유량	L/분	6.7	6.5	6.7
정격 압력	Bar /PSI	90 / 1305	90 / 1305	90 / 1305
최대 압력	Bar/PSI	135 / 1950	135 / 1950	135 / 1950
최대 주입구 온도	°C	50	50	50
최대 입력 압력	Bar	10	10	10
최대 압력에 대한 고압건 반발력	N	34	34	34
모터 보호		IPX5	IPX5	IPX5
사용되는 용수		차갑고 맑은 물	차갑고 맑은 물	차갑고 맑은 물
무게	Kg	14.4	14.4	14.4

		BEPWB2400 230-240V~ 50HZ	BEPWB2400 220V~ 60HZ	BEPWB2400TH 220V~ 50HZ
전력	W	2100	2100	2100
정격 유량	L/분	5.7	5.7	5.7
최대 유량	L/분	6.7	6.5	6.7
정격 압력	Bar /PSI	110 / 1595	110 / 1595	110 / 1595

최대 압력	Bar/PSI	165 / 2390	165 / 2390	165 / 2390
최대 주입구 온도	°C	50	50	50
최대 입력 압력	Bar	10	10	10
최대 압력에 대한 고압건 반발력	N	34	34	34
모터 보호		IPX5	IPX5	IPX5
사용되는 용수		차갑고 맑은 물	차갑고 맑은 물	차갑고 맑은 물
무게	Kg	16.6	16.6	16.6

## 용도

BLACK+DECKER BEPWB1740, BEPWB1740LP, BEPWB1740TH, BEPWB2000, BEPWB2000TH, BEPWB2400 및 BEPWB2400TH 고압 세척기는 자동차, 자전거 및 기타 실외 장비 또는 정원 안뜰, 온실 또는 기타 실외 표면의 청소를 위해 설계되었습니다.

## 안전 지침

**경고!** 주전원/무선 제품을 사용할 때는 화재, 감전, 부상 및 물질적 손상의 위험을 줄이기 위해 다음을 포함한 기본 안전 예방 조치를 항상 따라야 합니다.



사람, 동물, 기계 또는 전기 부품에 물을 분사하지 마십시오.

**경고!** 고압 분사되는 물은 오용될 경우 위험할 수 있습니다.



**경고!** 해당 규정에 따라 시스템 분리기 없이 음용수 네트워크에서 기기를 사용해서는 안 됩니다. IEC 61770 Type BA 에 따라 시스템 구분 기호를 사용하세요. 시스템 분리기를 통해 흐르는 물은 마실 수 있는 것으로 간주되지 않습니다.

- ◆ 상수도 회사의 규정을 준수하십시오.
- ◆ 모든 연결 호스에는 제대로 밀봉된 조인트가 있어야 합니다.
- ◆ 공급 호스의 직경이 최소 12.7mm 이고 보강되어 있는지 확인하십시오.
- ◆ 역류 밸브가 없는 식수 공급 장치에서 기기를 사용해서는 안 됩니다. 역류 밸브를 통과한 물은 마실 수 없는 것으로 간주됩니다.
- ◆ 사용하기 전에 이 설명서를 모두 주의 깊게 읽으십시오.
- ◆ 이 설명서에는 사용 목적이 설명되어 있습니다. 이 사용 설명서에서 권장하는 것 이외의 액세서리나 부착물을 사용하거나 이 제품을 조작하면 부상을 입을 위험이 있습니다.
- ◆ 나중에 참조할 수 있도록 이 설명서를 보관하십시오.
- ◆ 전기 공급 연결은 자격을 갖춘 전기 기술자가 수행해야 하며 IEC 60364-1을 준수해야 합니다. 이 제품에 대한 전기 공급에는 접지 누설 전류가 30ms 동안 30mA를 초과하는 경우 공급을 차단하는 잔류 전류 장치 또는 접지 회로를 증명하는 장치가 포함되어야 합니다.

- ◆ 이 제품은 신체의, 감각적 또는 정신적 능력이 저하되거나 경험과 지식이 부족한 사람 (어린이 포함) 이 사용하도록 제작되지 않았습니다.
- ◆ 어린이가 이 제품을 가지고 놀지 않도록 감독해야 합니다.
- ◆ 코드가 손상된 경우 위험을 피하기 위해 제조업체, 서비스 대리점 또는 이와 유사한 자격을 갖춘 사람이 교체해야 합니다.
- ◆ 경고: 이 제품은 제조업체가 제공하거나 권장하는 세척제와 함께 사용하도록 설계되었습니다. 다른 세척제나 화학 약품을 사용하면 **제품** 안전에 부정적인 영향을 미칠 수 있습니다.
- ◆ 경고: 고압 세척기를 사용하는 동안 에어로졸이 형성될 수 있습니다. 에어로졸 흡입은 건강에 해로울 수 있습니다.
- ◆ 경고: 고압 분사되는 물은 오용될 경우 위험할 수 있습니다. 분사되는 물은 사람, 전기가 흐르는 전기 장비 또는 제품 자체를 향해서는 안 됩니다.
- ◆ 경고: 보호복을 착용하지 않은 사람의 근처에서 제품을 사용하지 마십시오.
- ◆ 경고: 옷이나 신발을 청소하기 위해 자신이나 다른 사람에게 제트기를 분사하지 마십시오.
- ◆ 경고: 폭발 위험 - 인화성 액체를 뿌리지 마십시오.
- ◆ 경고: 고압 세척기는 어린이나 교육을 받지 않은 사람이 사용해서는 안 됩니다.
- ◆ 경고: 고압 호스, 피팅 및 커플링은 장비의 안전을 위해 중요합니다. 제조업체에서 권장하는 호스, 피팅 및 커플링만 사용하십시오.
- ◆ 경고: 제품 안전을 보장하려면 제조업체에서 제공하거나 제조업체에서 승인한 순정 부품만 사용하십시오.
- ◆ 경고: 역류 방지기를 통과한 물은 마실 수 없는 것으로 간주됩니다.
- ◆ 경고: 전원 코드나 제품의 중요한 부품이 손상된 경우 사용하지 마십시오. 예를 들면 안전 장치, 고압 호스, 트리거 건.
- ◆ 경고: 부적합한 연장 케이블은 위험할 수 있습니다. 연장 케이블을 사용하는 경우 실외 사용에 적합해야 하며 연결 부위는 건조하고 지면에서 떨어져 있어야 합니다. 소켓을 지면에서 최소 60mm 이상 유지하는 전원 케이블 릴을 사용하는 것이 좋습니다.
- ◆ 경고 배기 가스가 공기 흡입구 근처에 있지 않음을 확인하십시오.

- ◆ 경고: 제품을 보관할 때는 항상 주전원 차단 스위치를 끄십시오.
- ◆ 경고: 응용 분야에 따라 차폐 노즐을 고압 세척에 사용할 수 있으며, 이는 흡수 에어로졸의 방출을 극적으로 감소시킵니다. 그러나 모든 응용 프로그램에서 이러한 장치를 사용할 수 있는 것은 아닙니다. 에어로졸 보호를 위해 차폐 노즐을 적용할 수 없는 경우 청소 환경에 따라 FFP 2 등급 또는 이와 동등한 호흡기 마스크가 필요할 수 있습니다.

## 제품 사용

제품을 사용할 때는 항상 주의하십시오.

- ◆ 물의 흐름이 오븐 내부와 같이 전기 부품이 포함된 장비로 향하지 않아야 합니다.
- ◆ 제품 상 눈에 띄는 손상 징후가 있거나 누수가 있는 경우 제품을 사용하지 마십시오.
- ◆ 항상 보안경이나 고글을 사용하십시오.
- ◆ 이 제품은 신체적, 감각적 또는 정신적 능력이 저하되거나 경험과 지식이 부족한 사람 (어린이 포함) 이 사용하도록 제작되지 않았습니다. 사람, 특히 어린이나 애완동물이 가까이 있는 동안에는 절대로 기계를 작동하지 마십시오.
- ◆ 어린이나 동물이 작업장 근처에 접근하거나 제품이나 전원 케이블을 만지지 않도록 하십시오.
- ◆ 어린이 근처에서 이 제품을 사용할 경우 세심한 감독이 필요합니다.
- ◆ 이 제품은 감독 없이 젊거나 허약한 사람이 사용하도록 제작되지 않았습니다.
- ◆ 이 제품은 장난감으로 사용하지 마십시오.
- ◆ 일광 또는 인공 조명이 좋은 곳에서만 제품을 사용하십시오.
- ◆ 건조한 장소에서만 사용하십시오.
- ◆ 특히 낙뢰의 위험이 있는 악천후 조건에서 제품을 사용하지 마십시오.
- ◆ 제품을 물에 담그지 마십시오.
- ◆ 본체 케이스를 열지 마십시오. 내부에는 사용자가 수리할 수 있는 부품이 없습니다.
- ◆ 가연성 액체, 가스 또는 먼지가 있는 곳과 같이 폭발 위험이 있는 환경에서 제품을 작동하지 마십시오.
- ◆ 이 제품과 함께 제공된 전원 공급 장치와 함께 사용해야 합니다.
- ◆ 0도 이상의 온도에서 사용해야 합니다.
- ◆ 안전하지 않은 상황을 방지하기 위해 사고 (예: 세제와의 접촉; 다량의 깨끗한 물로 헹굼) 또는 고장이 발생한 경우 따라야 하는 작동 방법.
- ◆ 이 제품은 제조업체가 제공하거나 권장하는 세척제와 함께 사용하도록 설계되었습니다. 사용하기 전에 모든 화학 지침과 경고를 주의 깊게 준수하십시오. 승인된 고압 세척기만 사용하십시오. 표백제, 염소 또는 산이 포함된 세제를 사용하지 마십시오. 세척제를 올바르게 사용하려면 항상 제조업체의 라벨 권장 사항을 따르십시오.
- ◆ 보안경을 착용하십시오. 일상용 안경은 보안경이 아닙니다. 또한 작업에 먼지가 많은 경우 안면 또는 방진 마스크를 사용하십시오. 항상 인증된 안전 장비를 착용하십시오.
- ◆ 옷이나 신발을 청소하기 위해 자신이나 다른 사람에게 고압 분사되는 물을 분사하지 마십시오.

- ◆ 역류 방지 장치를 통과한 물은 응용 불가로 간주됩니다.
- ◆ 청소 또는 유지 보수 중에는 콘센트에서 플러그를 뽑아 기계의 전원을 차단해야 합니다.
- ◆ 연장 케이블을 사용하는 경우 플러그와 소켓은 방수 구조여야 합니다.
- ◆ 열 차단기의 부주의한 재설정으로 인한 위험을 피하기 위해 이 제품은 타이머와 같은 외부 스위칭 장치를 통해 공급되거나 유틸리티에 의해 정기적으로 켜지고 꺼지는 회로에 연결되어서는 안 됩니다.
- ◆ 제품 작동을 멈추고 압력을 빠르게 해제하는 방법을 숙지해야 합니다. 컨트롤에 대해 자세히 알아보십시오.
- ◆ 피로한 상태 또는 알코올 또는 약물의 영향을 받은 상태에서 제품을 작동시키지 마십시오.
- ◆ 전원이 켜지면 압력용 트리거를 누르지 않아도 내부 펌프가 시작되고 계속 작동합니다.
- ◆ 제품이 작동 중일 때 일정한 물 공급을 유지하십시오. 물 순환이 없으면 기계의 썰링 링이 손상됩니다.
- ◆ 제품 내부의 밀봉 링이 손상되는 것을 방지하기 위해 작동을 시작한 후 1~2 분 이내에 스프레이 랜스를 켜야 합니다.
- ◆ 전원을 켤 때 물 분사로 인한 반동에 주의하십시오.
- ◆ 제품은 평평한 곳에서 설치하십시오. 평평한 위치에 있어야 합니다. 제품을 이동시키려면 핸들을 잡아 당깁니다.
- ◆ 이 제품은 식수와 연결하는 데 적합하지 않습니다. 급수 장치에 연결하십시오.
- ◆ 주입구와 연결 파이프의 길이는 최소 5M이어야 합니다. 파이프가 손상된 경우 파이프를 사용하지 마십시오. 이 제품을 음용수와 연결하려면 더러운 물이 음용수 시스템으로 역류하는 것을 방지하기 위해 수도관에 역류 방지 장치를 설치해야 합니다. 역류 방지기는 IEC 60335-2-79 ANNEX AA 를 준수해야 합니다.

## 추가 위험

동봉된 안전 경고에 포함되지 않은 장치를 사용할 때 추가적인 위험이 발생할 수 있습니다.

이러한 위험은 오용, 장기간 사용 등으로 인해 발생할 수 있습니다. 관련 안전 규정을 적용하고 안전 장치를 구현하더라도 특정 잔류 위험을 피할 수 없습니다.

여기에는 다음이 포함됩니다.

- ◆ 회전/움직이는 부품을 만지면 부상을 입을 수 있습니다.
- ◆ 부품, 블레이드 또는 액세서리를 교체할 때 발생하는 부상.
- ◆ 장기간 사용으로 인한 부상. 장기간 사용할 때는 정기적으로 휴식을 취하십시오.
- ◆ 청각 장애.
- ◆ 공구를 사용할 때 발생하는 먼지 호흡으로 인한 건강 위험 (예: 목재, 특히 참나무, 너도밤나무 및 MDF 작업)

## 사용 후

- ◆ 제품을 사용하지 않을 때는 건조하고 통풍이 잘 되는 곳에 어린이의 손이 닿지 않는 곳에 보관해야 합니다.
- ◆ 어린이가 보관된 제품을 접근해서는 안 됩니다.
- ◆ 제품을 차량에 보관하거나 운송할 때는 속도나 방향의 급격한 변화에 따른 움직임을 방지하기 위해 부츠에 넣거나 구속해야 합니다.



## 검사 및 수리

- ◆ 사용하기 전에 제품에 손상되거나 결함이 있는 부품이 있는지 확인하십시오. 부품 파손 및 작동에 영향을 줄 수 있는 기타 조건이 있는지 확인하십시오.
- ◆ 손상되거나 결함이 있는 부품이 있는 경우 제품을 사용하지 마십시오.
- ◆ 손상되거나 결함이 있는 부품은 공인 수리 대리점에서 수리하거나 교체하십시오.
- ◆ 이 설명서에 명시된 부품 이외의 부품을 제거하거나 교체하지 마십시오.

## 고압세척기에 대한 추가 안전 지침

사용 목적은 이 설명서에 설명되어 있습니다. 이 사용 설명서에서 권장하지 않는 액세서리를 이 제품과 함께 사용하면 부상 및/또는 재산 피해의 위험이 발생할 수 있습니다.

- ◆ 제품을 작동하는 동안 발과 다리를 보호하려면 항상 튼튼한 신발과 긴 바지를 착용하십시오.
- ◆ 공구를 사용할 때 발생하는 먼지 호흡으로 인한 건강 위험 (예: 목재, 특히 참나무, 너도밤나무 및 MDF 작업)
  - ◆ 제품 방지.
  - ◆ 막힘 제거.
  - ◆ 제품 점검, 조정, 청소 또는 작업.
  - ◆ 제품이 비정상적으로 진동하기 시작하는 경우.
- ◆ 작동 시 고압 청소기의 입구 또는 출구를 눈이나 귀 근처에 두지 마십시오. 절대 구경코의 방향을 가리키지 마십시오.
- ◆ 보호복을 착용하지 않은 다른 사람이 주변에 있을 때 제품을 사용하지 마십시오.
- ◆ 우천 시 사용하거나 우천 시 실외에 두지 마십시오.
- ◆ 고압 세척기는 부적절하게 사용하면 위험할 수 있습니다. 분사되는 물은 사람, 동물, 전기가 흐르는 전기 장비 또는 제품 자체를 향해서는 안 됩니다.
- ◆ 고압 세척기가 다른 사람이나 사용자 자신을 향하여 의복이나 신발을 청소하도록 해서는 안 됩니다.
- ◆ 차량 타이어/타이어 벨트는 고압 분사로 인해 손상되기 쉽고 파열될 수 있습니다. 이에 대한 첫 번째 징후는 타이어의 변색입니다. 손상된 차량 타이어/타이어 벨트는 위험합니다. 청소하는 동안 최소 30cm의 분사 거리를 유지하십시오!
- ◆ 작업 전에 제품의 안전성을 확보하십시오.
- ◆ 고압 노즐에서 분사되는 워터 제트는 핸드 스프레이 건에 작용하는 반발력을 초래합니다. 핸드 스프레이 건과 스프레이 랜스를 단단히 잡고 있는지 확인하십시오.
- ◆ 폭발 위험이 있는 환경에서 작동하지 마십시오.
- ◆ 제품을 사용하여 유해 물질 (예: 석면) 이 포함된 물체를 청소하지 마십시오.
- ◆ 가연성 액체를 뿌리지 마십시오.
- ◆ 용제 또는 희석되지 않은 산 및 용제가 포함된 유체를 절대 흡입하지 마십시오! 여기에는 휘발유, 페인트 희석제 및 난방유가 포함됩니다. 스프레이 미스트는 가연성, 폭발성 및 유독성이 높습니다. 아세톤, 희석하지 않은 산 및 용제는 제품에 사용된 재료를 부식시키므로 사용하지 마십시오.

- ◆ 고압 호스, 고정 장치 및 커플링은 제품 안전을 위해 중요합니다. 제조업체에서 권장하는 고압 호스, 고정 장치 및 커플링만 사용하십시오.
- ◆ 급수호스 또는 고압호스를 분리할 경우 작동 후 연결부에서 뜨거운 물이 새어 나올 수 있습니다.
- ◆ 사고나 부상을 방지하기 위해 보관 위치를 선택할 때와 운송 중 (기술 데이터 참조) 제품의 무게에 유의하십시오.
- ◆ 제품을 몇 시간 동안 계속 사용하면 드문 경우지만 손이 저릴 수 있습니다.
  - ◆ 장갑을 착용하십시오.
  - ◆ 손을 따뜻하게 유지하십시오.
  - ◆ 일정한 간격으로 휴식을 취하십시오.
- ◆ 고압 세척기를 사용하는 동안 에어로졸이 발생할 수 있습니다. 에어로졸을 흡입하면 건강에 손상을 줄 수 있습니다.
  - ◆ 응용 분야에 따라, 수성 에어로졸의 방출을 크게 줄이는 완전히 차폐된 노즐 (예: 표면 세척제) 을 고압 세척에 사용할 수 있습니다.
  - ◆ 이러한 차폐의 사용은 모든 애플리케이션에서 가능하지 않습니다.
  - ◆ 완전히 차폐된 노즐을 사용할 수 없는 경우 청소할 환경에 따라 FFP 2 범주의 호흡기를 사용해야 합니다.
- ◆ 전원이 켜져 있는 동안 제품을 자갈 위에 놓지 마십시오.
- ◆ 특히 슬로프에서는 항상 발판을 확인하십시오. 지나치게 손을 대지 말고 항상 균형을 유지하십시오.
- ◆ 안전상의 이유로 제품은 잔류 전류 장치 (최대 30mA) 를 통해서만 작동할 것을 권장합니다.
- ◆ 부적합한 전기 연장 케이블은 위험할 수 있습니다. 이 목적을 위해 승인되고 레이블이 지정되고 적절한 케이블 단면적이 실외에서 있는 전기 연장 케이블만 사용하십시오. 1-10 m: 1.5 mm<sup>2</sup>; 10-30 m: 2.5 mm<sup>2</sup>
- ◆ 항상 케이블 드럼에서 연장 케이블을 완전히 푸십시오.
- ◆ 개구부에 물건을 넣지 마십시오. 구멍이 막힌 경우 사용하지 마십시오. 머리카락, 보푸라기, 먼지 및 공기 흐름을 감소시킬 수 있는 모든 것이 없는 곳에 보관하십시오.

**경고!** 항상 이 설명서에 설명된 방식으로 제품을 사용하십시오. 귀하의 제품은 세워져 사용하도록 설계되었으며 다른 방식으로 사용하면 부상을 입을 수 있습니다.

제품을 옆으로 놓거나 거꾸로 놓힌 상태에서 절대 제품을 작동하지 마십시오.

- ◆ 타인 또는 타인의 재산에 발생한 사고 및 위험에 대한 책임은 운영자 또는 사용자에게 있습니다.
- ◆ 제품을 청소할 때 용제나 세정액을 사용하지 마십시오.
- ◆ 제품이 안전한 작동 상태인지 확인하기 위해 모든 너트 볼트와 나사를 단단히 조이십시오.

## 타인의 안전

- ◆ 이 제품은 신체적, 감각적 또는 정신적 능력이 저하되거나 경험과 지식이 부족한 사람이 안전한 방법으로 제품을 사용하는 것에 대한 감독이나 지시를 받고 관련 위험을 이해하는 경우 사용할 수 있습니다.
- ◆ 어린이가 이 제품을 사용해서는 안 됩니다. 어린이가 가지고 놀지 않도록 감독해야 합니다.

## 전기 안전



이 제품은 이중 절연되어 있으므로 접지선이 필요하지 않습니다. 주전원 전압이 명판의 전압과 일치하는지 항상 확인하십시오.

- ◆ 전원 코드가 손상된 경우 위험을 방지하기 위해 제조업체 또는 공인 BLACK+DECKER 서비스 센터에서 교체해야 합니다.
- ◆ 제품을 오랫동안 사용하지 않은 경우 전원 플러그를 빼십시오. 감전, 누전 및 화재의 원인이 됩니다
- ◆ 번압기를 사용하는 경우 전압, 주파수, 정격 전력의 조건이 다르기 때문에 감전, 화재의 원인이 될 수 있습니다
- ◆ 전원코드 또는 전기선이 침수됐거나 물에 젖은 경우 사용을 중지하십시오
- ◆ 제품을 청소 할 때는 반드시 전원 플러그를 빼십시오
- ◆ 외출 시에는 반드시 전원 플러그를 뽑아 주십시오. 누전, 화재의 원인이 될 수 있습니다
- ◆ 동물이 전원선을 갉아 먹지 않도록 주의 하십시오

### 제품 라벨

제품에는 Date Code와 함께 다음 경고 기호가 있습니다.



작동하기 전에 설명서를 읽으십시오.



이 제품을 작동할 때는 보안경이나 고글을 착용하십시오.



이 제품을 작동할 때는 적절한 귀 보호대를 착용하십시오.



이 제품은 식수와 연결하는 데 적합하지 않습니다.



사람, 동물, 기계 또는 전기 부품에 물을 분사하지 마십시오.

### 기능

이 공구에는 다음 기능 중 일부 또는 모두가 포함되어 있습니다.

1. 고압 호스
2. 연장 랜스
3. 노즐 버튼
4. 스프레이 핸들
5. 스프레이 핸들 그림
6. 잠금 해제 트리거
7. 트리거
8. 펜슬 제트 노즐에 팬 스프레이
9. 호스 커넥터
10. 필터
11. 세제통

12. 세제통 도포기
13. 호스 연결 버튼
14. 노즐 청소 공구
15. 터보 노즐
16. 고압세척기 유닛
17. ON/OFF 다이얼
18. 핸들
19. 개폐식 핸들 (BEPWB2400, BEPWB2400TH)
20. 고압수 출구
21. 호스 릴
22. 코드 고정 후크
23. 압력 호스 끝
24. 압력 호스 칼라
25. 물 탱크
26. 노즐 홀스터
27. 스프레이 핸들 홀스터
28. 정원 호스 칼라
29. 스프레이 핸들/노즐 지지대
30. 짧은 스프레이 핸들 (BEPWB1740TH, BEPWB2000TH, BEPWB2400TH만 해당)
31. 핸들 해제 버튼(BEPWB2400, BEPWB2400TH만 해당)

### 어셈블리

**경고!** 심각한 부상의 위험을 줄이려면 조정을 수행하거나 부착물 또는 액세서리를 제거/설치하기 전에 장치를 끄고 전원에서 분리하십시오.공구가 갑자기 작동하여 부상을 당할 수 있습니다.

### 자동 ON/OFF:

이 고압 세척기의 모터는 계속 작동하지 않습니다. 스프레이 건의 트리거를 당길 때만 작동합니다. 이 설명서의 시동 절차를 따른 후 고압 세척기를 켜고 작동을 위해 트리거를 당기십시오.자세한 내용은 이 설명서의 "작동 지침" 섹션을 참조하십시오.

### 건 블리딩:

압력 와셔를 사용하기 전에 건에서 물을 빼는 것이 매우 중요합니다.장치와 호스 내부에 갇힌 공기가 빠져나갈 수 있도록 트리거를 당기십시오.노즐에서 일정한 물줄기가 나올 때까지 트리거를 계속 쥐십시오. (이 과정은 최대 2분이 소요될 수 있습니다.) 이 프로세스에 대해서는 "작동 지침" 섹션을 참조하십시오.

### 핸들 부착 (그림 B1)

### BEPWB2000/BEPWB2000TH

핸들 (18) 을 고압세척기 유닛 (16) 위로 누르고 제공된 나사로 고정합니다. 과도하게 조이지 마십시오.

### 개폐식 핸들(그림 A, B2)

### BEPWB2400 / BEPWB2400TH

이 압력 세척기에는 편리한 접이식 손잡이와 운반용 바퀴가 내장되어 있습니다.

- ◆ 수납식 핸들 (19) 의 잠금을 해제하려면 핸들 분리 버튼 (31) 을 누르고 핸들을 위로 밀니다. 제자리에 고정되면 딸각하는 소리가 들립니다.
- ◆ 개폐식 핸들 (19) 을 보관하려면 핸들 분리 버튼 (31) 을 누르고 개폐식 핸들을 압력 와서 본체에 아래로 밀어 넣습니다. 제자리에 고정되면 딸각하는 소리가 들립니다.
- ◆ 압력 세척기 (16) 를 이동하려면 운반 바퀴가 지면에 닿도록 장치를 기울이고 접이식 핸들로 장치를 당깁니다.

### 코드 리테이너 부착 (그림 L)

"딸각" 소리가 날 때까지 코드 리테이너 (22) 를 위에서 제품 지지대 (22A) 위로 밀니다.

### 스프레이 핸들 홀스터 및 스프레이 핸들/노즐 지지대 부착 (그림 M)

"딸각" 소리가 날 때까지 스프레이 핸들 홀스터 (27) 를 상단에서 제품 지지대 (27A) 위로 밀니다.

### 고압 호스 부착 (그림 C1, C2, C3)

참고사항: 고압호스나 급수호스를 잡아당겨 고압세척기를 옮기지 마십시오. 호스 및/또는 펌프 흡입구 및/또는 펌프 배출구가 손상될 수 있습니다.

- ◆ 고압 호스 (1) 를 스프레이 핸들 4/30 에 연결하려면 호스 연결 버튼 (13) 을 누른 상태에서 호스 끝 (23) 을 스프레이 핸들에 클릭합니다. 호스 끝이 딸각 소리를 내며 제자리에 고정되면 호스 연결 버튼에서 손을 뗍니다.
- ◆ 고압 호스를 고압 세척기 (16) 에 연결하려면 호스 칼라 (24) 를 고압수 배출구 (20) 에 나사로 고정합니다.

### BEPWB1740/BEPWB1740LP/BEPWB1740TH, BEPWB2000/BEPWB2000TH

- ◆ 고압 호스 (1) 를 스프레이 핸들 (4/30) 에 연결하려면 호스 끝 (23) 을 스프레이 핸들에 클릭하면서 호스 연결 버튼 (13) 을 누르십시오. 호스 끝이 딸각 소리를 내며 제자리에 고정되면 호스 연결 버튼에서 손을 뗍니다.
- ◆ **참고:** 꼬임을 방지하기 위해 설치하기 전에 고압 호스를 푸십시오.  
**참고:** 호스를 설치할 때 십자형 나사를 사용하지 마십시오. 크로스 스레딩으로 인해 누수가 발생합니다..

### 스프레이 핸들 부착 (그림 D)

- ◆ 스프레이 핸들 (4/30) 을 스프레이 봉 (2) 에 연결하려면 스프레이 핸들의 끝을 스프레이 봉의 끝에 삽입합니다.
- ◆ 스프레이 핸들을 누르고 시계 반대 방향으로 돌려 제자리에 고정합니다.

### 정원 호스 부착 (그림 E, N2, N3)

**참고:**정원 호스를 고압 세척기에 연결하기 전에 정원 호스에 물을 30 초 동안 흐르게 하여 정원 호스 내부에 있는 이물질을 제거하십시오.

- ◆ 정원 호스를 고압 세척기 (16) 에 연결하려면 필터 (10) 를 급수구 (25) 에 나사로 고정하십시오.
- ◆ 정원 커넥터의 나사를 풀고 호스를 커넥터에 부착하여 정원 호스 (28) 를 호스 커넥터 (9) 에 연결합니다.

- ◆ 정원 커넥터에 장착된 정원 호스 (28) 를 "딸각" 소리가 날 때까지 필터 (10) 에 연결합니다.

**참고:** 사용 후에는 항상 정원 호스를 분리하십시오.

### 노즐 부착 (그림 A, D)

**위험!** 유체주입위험. 사람, 보호되지 않은 피부, 눈 또는 애완동물이나 동물에게 배출물을 직접 향하게 하지 마십시오. 심각한 부상을 입을 수 있습니다.

**경고!** 날아다니는 물체는 물체는 고압 세척기가 작동하는 동안 노즐을 교체하지 마십시오. 노즐을 교체하기 전에 고압 세척기를 끕니다.

- ◆ 노즐을 스프레이 봉 (2) 에 연결하려면 스프레이 봉의 노즐 버튼 (3) 을 누르고 적절한 노즐을 삽입합니다.
- ◆ 버튼을 놓아 노즐을 제자리에 고정합니다.
- ◆ 노즐을 세게 잡아 당겨서, 노즐이 제자리에 고정 되었는지 확인 합니다.

**참고:** 60° 팬 노즐은 표준 스프레이 핸들이 아닌 짧은 스프레이 핸들에 딱 맞습니다.

### 제트/스프레이 분사 노즐에 패턴 조정

#### 팬 패턴 조정 (그림 F1, F2)

스프레이 봉에서 나오는 스프레이 각도는 노즐을 돌려서 조절할 수 있습니다. 이렇게 하면 약 0° 좁은 고충격 스트림에서 60° 폭 팬 스프레이까지 스프레이 패턴이 달라집니다.

넓은 팬 패턴은 물의 영향을 더 넓은 영역으로 분산시켜 표면 손상 위험을 줄이면서 탁월한 청소 효과를 제공합니다. 넓은 팬 패턴을 사용하면 넓은 표면을 더 빠르게 청소할 수 있습니다.

좁은 연필 제트 기류는 집중된 영역에 물의 영향을 분산시켜 청소 표면에 높은 충격력을 가합니다. 집중된 부분을 딥 클리닝하려면 좁은 연필 제트 기류를 사용하십시오. 그러나 일부 표면이 손상될 수 있으므로 주의하여 사용하십시오.

스프레이 팁	어플리케이션
팬셀 제트 노즐에 팬 스프레이	부드러운 넓은 영역 청소.
터보 노즐	연마제 청소용.

### 세제통 장착 (그림 I)

세제통을 (11) 스프레이 손잡이 (4) 에 연결하려면, 세제통 끝을 스프레이 손잡이 안쪽에 삽입하고 세제통을 시계 반대 방향으로 돌려 제자리에 고정합니다.

**참고:** 연장 랜스와 세제통은 동시에 설치할 수 없습니다.

**참고:** 세제통은 스프레이 핸들 배럴 아래에 위치해야 합니다. 세제통을 플라스틱 건의 배럴 위에 놓지 마십시오. 비누가 배럴에 떨어질 수 있습니다.

### 조작

**경고!**이 장치는 냉수에만 연결해야 합니다.

**경고!**이 압력 세척기의 모터는, 트리거를 당길 때만 작동합니다.

- ◆ 배출 호스를 고압 세척기 유닛에 연결하고 스프레이 건을 배출 호스에 연결합니다.
- ◆ 노즐과 노즐 연장 연결.

- ◆ 거즈 필터에 막힌 부분이 없는지 확인하십시오.
- ◆ 급수호스 연결.
- ◆ 호스에 꼬임이 없는지 확인하십시오.
- ◆ 물을 틀고 누수가 없는지 확인하십시오.
- ◆ 트리거를 눌러 공기가 펌프와 호스를 통해 배출되도록 하고 트리거를 잠그십시오.
- ◆ 전원을 연결하고 스위치를 켭니다.
- ◆ 트리거를 풀고 압력 와셔를 사용하십시오.

### 셋다운

- ◆ 모터를 끕니다 (스위치를 꺼짐 위치로 누름).
- ◆ 전원에서 장치의 플러그를 뽑습니다.
- ◆ 물 공급을 끕니다
- ◆ 건의 트리거를 눌러 시스템의 압력을 낮춥니다.
- ◆ 고압세척기에서 정원용 호스를 분리하십시오.
- ◆ 젖은 깨끗한 천으로 장치의 모든 표면을 닦으십시오.
- ◆ 건 안전 잠금 장치를 잠그십시오.

**주의:** 장치의 급수를 끄기 전에 항상 장치의 모터를 끄십시오. 물 없이 작동하면 모터에 심각한 손상이 발생할 수 있습니다.

**주의:** 시스템에 압력이 가해진 상태에서는 절대 고압 배출 호스를 제품에서 분리하지 마십시오. 장치의 압력을 낮추려면 모터를 끄고 급수를 끄고 트리거를 2-3 번 누르십시오.

### 올바른 손의 위치 (그림 G)

**경고!** 심각한 부상의 위험을 줄이려면 이 공구를 그림과 같이 올바른 손 위치를 사용하십시오.

**경고!** 심각한 부상의 위험을 줄이려면 이 공구를 갑작스러운 반응에 대비하여 항상 단단히 잡으십시오. 손의 위치가 적절하려면 한 손은 스프레이 핸들 (5) 을 잡고 다른 손은 스프레이 핸들 (4) 을 잡아야 합니다.

### 클리닝 핀 지침 (그림 J)

- ◆ 동봉된 팁 클리너 또는 펼쳐진 종이 클립을 사용하여 와이어를 노즐 구멍에 삽입하고 파편이 제거될 때까지 앞뒤로 움직입니다.
- ◆ 노즐을 통해 물을 역세척하여 추가 이물질을 제거합니다. 이렇게 하려면 정원 호스 끝 (물이 흐르는 상태) 을 노즐 끝에 30-60 초 동안 놓습니다.

### 필터 청소 (그림 K)

매번 사용하기 전에 필터를 검사하고 필요한 경우 청소하세요. 필터 요소를 제거하고 깨끗한 물에서 실행하여 이물질을 제거합니다.

### 자가 프라임링 (그림 C, E, N1, N2, N3, N4, N5, N6, N7)

- ◆ 흡입 호스를 고압 세척기에 연결합니다. 정원 호스 부착 을 참조하십시오.
- ◆ 필터가 부착된 호스의 다른 쪽 끝을 대체 수원 (예: 양동이 등) 에 놓으십시오.
- ◆ 고압 호스를 스프레이 핸들에 연결하십시오. 고압호스 부착 을 참조하십시오.
- ◆ 고압 세척기 장치를 전원에 연결합니다.

- ◆ ON/OFF 다이얼을 ON 위치로 돌려 압력 세척기를 작동시킵니다.

- ◆ 튜브에서 물이 분사되는 즉시 고압 세척기를 끕니다.
- ◆ 전원에서 고압 세척기 장치의 플러그를 뽑습니다.
- ◆ 고압 호스를 고압수 콘센트에 조립합니다.
- ◆ 고압 세척기 장치를 전원에 연결합니다.
- ◆ 스프레이 핸들의 트리거를 당겨 청소 작업을 시작합니다.
- ◆ 스프레이 핸들의 트리거를 작동시켜 청소 작업을 시작하십시오.

### 유지 보수

**경고!** 심각한 부상의 위험을 줄이려면 조정을 하거나 부착물 또는 액세서리를 제거/설치하기 전에 장치를 끄고 전원에서 플러그를 뽑으십시오. 공구가 갑자기 작동하여 부상을 당할 수 있습니다.

### 청소

**경고!** 적어도 일주일에 한 번 깨끗하고 건조한 공기로 모든 통풍구에서 먼지와 먼지를 날려 버리십시오. 눈 부상의 위험을 최소화하려면 이 절차를 수행할 때 항상 보안경을 착용하십시오.

**경고!** 제품의 비금속 부분을 청소할 때 솔벤트나 기타 강한 화학 물질을 사용하지 마십시오. 그렇지 않으면 이러한 부분에 사용된 플라스틱 재료가 약해질 수 있습니다. 형광에 물과 혼합 비누를 적셔 닦아주십시오. 제품 내부에 액체가 들어가지 않도록 하십시오. 제품의 어떤 부분도 액체에 담그지 마십시오.

### 보관 (그림 O, P)

- ◆ 동결 온도 이상의 건조하고 덩개 있는 장소에 보관하십시오. 실내에 보관하십시오.
- ◆ 고압 호스, 고압 세척기, 노즐 및 스프레이 봉에서 항상 물을 완전히 비우십시오.

- ◆ 노즐은 그림 O 와 같이 장치에 보관할 수 있습니다.

**참고:** 터보 또는 펜슬 팬 노즐도 봉에 보관할 수 있습니다.

- ◆ 전원 코드는 그림 P와 같이 코드 고정 고리 (22) 로 감아 보관할 수 있습니다.
- ◆ 고압 호스 (1) 는 감아서 보관할 수 있으며 후크 (18a) (BEPWB2000/BEPWB2000TH) 를 사용하여 핸들 (18) 에 고정할 수 있습니다.
- ◆ 조립된 봉과 노즐이 있는 스프레이 핸들은 제품 측면의 홀스터 (26) 에 보관할 수 있습니다 (그림 P).

### 액세서리

**경고!** BLACK+DECKER에서 제공하는 액세서리 이외의 액세서리는 이 제품에서 테스트되지 않았으므로 이 제품과 함께 이러한 액세서리를 사용하면 위험할 수 있습니다. 부상 위험을 줄이려면 BLACK+DECKER 권장 액세서리만 이 제품과 함께 사용해야 합니다.

제품과 함께 사용하기 위한 권장 액세서리는 지역 대리점이나 공인 서비스 센터에서 추가 비용으로 구입할 수 있습니다.

액세서리를 찾는 데 도움이 필요하면 <https://kr.blackanddecker.global> 에 문의하십시오.

환경 보호



분리 수거, 이 기호가 표시된 제품과 배터리를 일반 가정용 쓰레기와 함께 처리하면 안됩니다.

제품과 배터리에는 재용되거나 재활용되고 고철 자원에 대한 수요를 줄일 수 있는 자재가 포함되어 있습니다. 지역 규정에 따라 전기 제품과 배터리를 재활용하십시오.

문제 해결

문제	가능한 원인	해결책
스위치를 켜면 제품이 작동을 시작하지 않습니다	1. 플러그가 제대로 연결되지 않았거나 전기 소켓에 결함이 있습니다.	1. 플러그, 소켓 확인.
	2. 주 전압이 충분하지 않고 최소 요구 사항보다 낮습니다.	2. 주 전압이 적절한지 확인하십시오.
	3. 펌프가 고착되었습니다.	3. 보관 지침을 참조하십시오.
	4. 열 안전 스위치가 트립되었습니다.	4. 장치를 끄고 모터를 몇 분 동안 식하십시오.
변동 압력	1. 공기를 빨아들이는 펌프.	1. 호스와 연결부가 밀폐되어 있는지 확인하십시오.
	2. 밸브가 더럽거나 마모되었거나 막혔습니다.	2. 청소 및 교체하거나 대리점에 문의하십시오.
	3. 펌프 씰이 마모되었습니다.	3. 펌프 씰이 마모되었습니다. 대리점에 문의 하십시오.
펌프에서 물이 새고 있습니다.	씰이 마모되었습니다.	대리점에 문의 하십시오.
모터가 갑자기 멈춥니다.	과열로 인해 열 안전 스위치가 트립되었습니다.	주전압이 사양에 맞는지 확인하십시오. 장치를 끄고 몇 분 동안 식하십시오.
펌프가 필요할 압력에 도달하지 않습니다.	1. 급수 필터가 막혔습니다.	1. 급수 필터를 청소하십시오.
	2. 연결부 또는 호스에서 펌프가 공기를 흡입합니다.	2. 모든 공기 연결이 단단히 조여져 있는지 확인하십시오.
	3. 흡입/배출 밸브가 막혔거나 마모되었습니다.	3. 급수 호스가 새지 않는지 확인하십시오.
	4. 언로드된 밸브가 막혔습니다.	4. 밸브를 청소하거나 교체하십시오.
	5. 랜스 노즐이詰렸되었거나 마모되었습니다.	5. 조절 나사를 풀고 다시 조입니다. 6. 확인 및/또는 교체하십시오.

서비스 정보

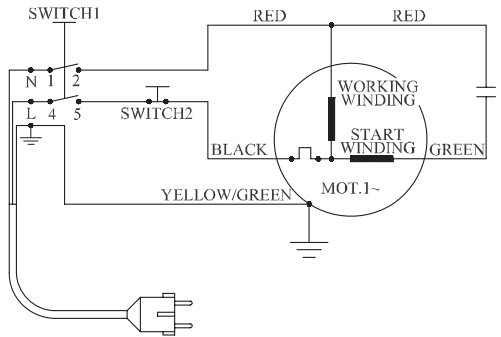
BLACK+DECKER 는 대한민국 전역에 영입소를 자체 운영하거나 공인 서비스센터를 두고 있습니다. 모든 BLACK+DECKER 서비스 센터에는 교육을 이수한 전문직원이 배치되어 있어, 고객에게 효과적이고 믿을 수 있는 전동공구 서비스를 제공합니다.

기술적 상담, 수리 또는 순정 교체 부품이 필요한 모든 경우에 가까운 BLACK+DECKER 로 연락하십시오. 서비스 연락처: 1577-0933.

참고:

- ◆ BLACK+DECKER의 정책은 당사 제품의 지속적인 개선이며, 이에 따라 당사는 사전 통지 없이 제품 사양을 변경할 수 있는 권리를 보유합니다.
- ◆ 표준 장비 및 액세서리는 국가마다 다를 수 있습니다.
- ◆ 제품 사양은 국가별로 다를 수 있습니다.
- ◆ 일부 국가에서는 전체 제품 범위를 사용할 수 없습니다. 범위 가용성에 대해서는 지역 BLACK+DECKER 대리점에 문의하십시오.

전기 다이어그램



Zhejiang Anlu Cleaning Machinery Co Ltd

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## BEPWB1740, BEPWB1740LP, BEPWB2000, BEPWB2400, BEPWB1740TH, BEPWB2000TH, BEPWB2400TH

### Pencuci Bertekanan Tinggi

#### Data teknis

		BEPWB1740 230-240V~ 50HZ	BEPWB1740LP 230-240V~ 50HZ	BEPWB1740 220V~ 60HZ	BEPWB1740TH 220V~ 50HZ
Tenaga	W	1500	900	1500	1500
Laju Aliran Terukur	L/min	4.8	4.8	4.8	4.8
Laju Aliran Air Maksimal	L/min	5.3	5.3	5.3	5.3
Tekanan Terukur	Bar /PSI	80 / 1160	60 / 870	80 / 1160	80 / 1160
Tekanan Maksimal	Bar/PSI	120 / 1740	90 / 1300	120 / 1740	120 / 1740
Suhu Kanal Maksimal	°C	50	50	50	50
Bar Tekanan Masuk Maksimal	Bar	10	10	10	10
Gaya Repulsif Pistol terhadap Tekanan Maksimal	N	34	34	34	34
Pelindung Motor		IPX5	IPX5	IPX5	IPX5
Air yang Masuk		Air jernih yang Dingin	Air jernih yang Dingin	Air jernih yang Dingin	Air jernih yang Dingin
Berat	Kg	10.7	10.7	10.7	10.7

		BEPWB2000 230-240V~ 50HZ	BEPWB2000 220V~ 60HZ	BEPWB2000TH 220V~ 50HZ
Tenaga	W	1800	1800	1800
Laju Aliran Terukur	L/min	5.7	5.7	5.7
Laju Aliran Air Maksimal	L/min	6.7	6.5	6.7
Tekanan Terukur	Bar /PSI	90 / 1305	90 / 1305	90 / 1305
Tekanan Maksimal	Bar/PSI	135 / 1950	135 / 1950	135 / 1950
Suhu Kanal Maksimal	°C	50	50	50
Bar Tekanan Masuk Maksimal	Bar	10	10	10
Gaya Repulsif Pistol terhadap Tekanan Maksimal	N	34	34	34
Pelindung Motor		IPX5	IPX5	IPX5
Air yang Masuk		Air jernih yang Dingin	Air jernih yang Dingin	Air jernih yang Dingin
Berat	Kg	14.4	14.4	14.4

		BEPWB2400 230-240V~ 50HZ	BEPWB2400 220V~ 60HZ	BEPWB2400TH 220V~ 50HZ
Tenaga	W	2100	2100	2100
Laju Aliran Terukur	L/min	5.7	5.7	5.7

Laju Aliran Air Maksimal	L/min	6.7	6.5	6.7
Tekanan Terukur	Bar /PSI	110 / 1595	110 / 1595	110 / 1595
Tekanan Maksimal	Bar/PSI	165 / 2390	165 / 2390	165 / 2390
Suhu Kanal Maksimal	°C	50	50	50
Bar Tekanan Masuk Maksimal	Bar	10	10	10
Gaya Repulsif Pistol terhadap Tekanan Maksimal	N	34	34	34
Pelindung Motor		IPX5	IPX5	IPX5
Air yang Masuk		Air jernih yang Dingin	Air jernih yang Dingin	Air jernih yang Dingin
Berat	Kg	16.6	16.6	16.6

## Tujuan penggunaan

BLACK+DECKER BEPWB1740, BEPWB1740LP, BEPWB1740TH, BEPWB2000, BEPWB2000TH, BEPWB2400 dan BEPWB2400TH Anda

Pencuci Bertekanan Tinggi ini sudah didesain untuk melakukan pembersihan mobil, sepeda dan perangkat lain untuk tempat terbuka atau teras taman, rumah kaca maupun permukaan benda luar ruangan lainnya.

## Petunjuk keselamatan

**Peringatan!** Ketika memakai perangkat nirkabel/perangkat berdaya listrik, tingkat kewaspadaan dan pencegahan dasar, yang meliputi hal berikut ini, harus selalu diikuti untuk mengurangi risiko terjadinya kebakaran, sengatan listrik, cedera pada diri dan kerusakan barang.



Jangan pernah mengarahkan jet air pada orang-orang, binatang, komponen mesin atau listrik.

**Peringatan!** Jet bertekanan tinggi bisa menjadi bahaya bila perangkat disalahgunakan.



**Peringatan!** Menurut peraturan yang berlaku, perangkat tidak boleh digunakan pada jaringan air minum tanpa separator sistem. Gunakan separator sistem sesuai IEC 61770 Tipe BA.

Air yang mengalir melalui separator sistem tidak dianggap sebagai air yang bisa diminum.

- ◆ Baca seluruh panduan ini dengan cermat sebelum menggunakan peralatan.
- ◆ Tujuan penggunaan dijelaskan dalam panduan ini. Penggunaan aksesoris atau peralatan tambahan atau pengoperasian peralatan selain yang disarankan dalam panduan ini dapat menimbulkan risiko cedera badan.
- ◆ Simpan panduan ini untuk referensi di masa mendatang.
- ◆ Sambungan sumber listrik harus dibuat oleh seorang tenaga listrik yang berkualifikasi dan mematuhi IEC 60364-1. Direkomendasikan agar sumber listrik mesin ini harus meliputi, baik sebuah perangkat pemutus aliran listrik yang akan memutus sumber listrik saat terjadi kebocoran arus ke tanah yang melebihi 30 mA selama 30 ms, atau perangkat yang memastikan rangkaian listrik tanah.
- ◆ Penggunaan mesin ini tidak diperuntukan untuk orang-orang (termasuk anak-anak) dengan penurunan kemampuan fisik, indra atau mental, atau yang kurang berpengalaman dan pengetahuan.
- ◆ Anak-anak harus diawasi untuk memastikan agar mereka tidak bermain dengan perangkat.
- ◆ Bila kabel listrik mengalami kerusakan, kabel harus diganti oleh pabrik produsen, agen layanannya atau individu dengan kualifikasi sejenis untuk menghindari terjadinya bahaya.
- ◆ PERINGATAN: Mesin ini sudah dirancang untuk digunakan bersama alat pembersih yang disuplai atau direkomendasikan oleh pabrik produsen. Pemakaian alat atau bahan kimia pembersih lainnya bisa berdampak buruk terhadap keamanan mesin.
- ◆ PERINGATAN: Selama pemakaian alat pembersih bertekanan tinggi, bisa terbentuk partikel aerosol. Inhalasi dari partikel aerosol bisa berbahaya bagi kesehatan.
- ◆ PERINGATAN: Jet bertekanan tinggi bisa menjadi bahaya bila perangkat disalahgunakan. Jet tidak boleh diarahkan pada orang-orang, perangkat listrik yang sedang menyala atau pada mesin itu sendiri.
- ◆ Patuhi peraturan-peraturan dari perusahaan sumber air anda.
- ◆ Semua selang yang terhubung harus memiliki sambungan yang tersegel dengan benar.
- ◆ Pastikan diameter selang suplai minimal berukuran 12,7 mm dan dikuatkan.
- ◆ Perangkat tidak boleh digunakan pada sumber air minum tanpa katup aliran balik. Air yang sudah melewati katup aliran balik dianggap tidak bisa diminum.

- ◆ PERINGATAN: Jangan memakai mesin dalam rentang jangkauan orang-orang kecuali mereka memakai pakaian pelindung.
- ◆ PERINGATAN: Jangan pernah mengarahkan jet pada diri Anda ataupun orang lain untuk membersihkan pakaian maupun alas kaki.
- ◆ PERINGATAN: Risiko terjadi ledakan – Jangan menyempatkan cairan yang mudah terbakar.
- ◆ PERINGATAN: Alat pembersih bertekanan tinggi tidak boleh dipakai oleh anak-anak maupun petugas yang tidak terlatih.
- ◆ PERINGATAN: Selang bertekanan tinggi, komponen adaptor dan sekrup pipa adalah benda yang penting untuk keamanan mesin. Hanya gunakan selang, komponen adaptor dan sekrup yang direkomendasikan oleh pabrik produsen.
- ◆ PERINGATAN: Untuk memastikan keamanan mesin, hanya gunakan suku cadang asli yang berasal dari pabrik produsen atau sudah diakui oleh pabrik produsen.
- ◆ PERINGATAN: Air yang sudah mengalir melewati alat pencegah aliran balik dianggap bukan sebagai air yang bisa diminum.
- ◆ PERINGATAN: Jangan memakai mesin bila kabel listrik atau suku cadang penting dari mesin mengalami kerusakan, contohnya adalah alat pengaman, selang bertekanan tinggi, atau pistol penyemprot.
- ◆ PERINGATAN: Kabel ekstensi yang tidak memenuhi syarat pemakaian bisa menjadi bahaya. Bila kabel ekstensi dipergunakan, kabel harus bisa dipakai di luar ruangan, dan sambungan kabelnya harus dijaga agar kering dan jauh dari permukaan tanah. Direkomendasikan agar Anda memakai gulungan kabel untuk menjaga agar stop kontak berada minimal 60 mm di atas tanah.
- ◆ PERINGATAN: Jangan memakai mesin yang didukung oleh motor pembakaran di dalam ruangan kecuali ventilasi ruangan yang telah memenuhi syarat dinilai oleh lembaga tenaga kerja nasional.
- ◆ PERINGATAN: Pastikan agar emisi gas buang dari mesin tidak berada di sekitar area udara masuk.
- ◆ PERINGATAN: Selalu matikan saklar yang memutus sambungan sumber listrik ketika mesin sedang tidak dipakai dan tidak dalam pengawasan.
- ◆ PERINGATAN: Tergantung pemakaiannya, nozzle terlindung bisa dipakai untuk membersihkan dengan alat bertekanan tinggi, yang mana akan mengurangi emisi partikel aerosol berair secara drastis. Namun, tidak seluruh kegiatan pembersihan bisa dipakai dengan perangkat tersebut. Bila nozzle terlindung tidak bisa dipakai sebagai perlindungan terhadap partikel aerosol, masker pernapasan kelas FFP 2 atau masker sepadan mungkin akan dibutuhkan, tergantung dengan lingkungan tempat pembersihan.

## Memakai Perangkat Anda

Waspadalah selalu ketika sedang memakai perangkat.

- ◆ Aliran air tidak boleh dibidikkan ke arah perangkat dengan komponen listrik, contohnya bagian interior dari oven.
- ◆ Perangkat tidak boleh dipakai bila alat sudah jatuh, atau terdapat tanda-tanda kerusakan yang tampak nyata atau bila ada kebocoran.
- ◆ Selalu kenakan kacamata atau goggle pelindung.
- ◆ Mesin ini tidak diperuntukkan pemakaiannya untuk orang-orang (termasuk anak-anak) dengan penurunan kemampuan fisik, indra atau mental, maupun yang kurang berpengalaman dan pengetahuan. Jangan menjalankan mesin saat ada orang-orang, terutama anak-anak maupun hewan di sekitar Anda.
- ◆ Jangan izinkan anak-anak atau binatang mendekati area kerja atau bersentuhan langsung dengan perangkat atau kabel listrik mesin.
- ◆ Dibutuhkan pengawasan yang ketat ketika perangkat dipergunakan di dekat anak-anak.
- ◆ Perangkat ini tidak diperuntukkan pemakaiannya oleh anak muda atau individu yang lemah tanpa pengawasan.
- ◆ Perangkat ini tidak diperuntukkan penggunaannya sebagai mainan.
- ◆ Hanya pakai perangkat di siang hari atau di tempat dengan penerangan yang baik.
- ◆ Hanya pakai alat di tempat yang kering. Jangan biarkan perangkat menjadi basah.
- ◆ Hindari pemakaian perangkat saat cuaca sedang buruk, khususnya bila terdapat risiko munculnya petir.
- ◆ Jangan membenamkan perangkat ke dalam air.
- ◆ Jangan membuka badan kasing dari mesin. Ada suku cadang di dalamnya yang tidak bisa diperbaiki sendiri oleh pengguna.
- ◆ Jangan menjalankan perangkat pada lingkungan yang mudah meledak, seperti di area yang terdapat cairan, gas atau abu yang mudah terbakar.
- ◆ Perangkat ini hanya boleh dipergunakan dengan unit catu daya listrik yang disediakan bersama perangkat.
- ◆ Mesin ini diperuntukkan untuk pemakaian pada suhu di atas 0 derajat.
- ◆ Cara pengoperasian perangkat harus dipatuhi saat terjadi insiden (contohnya bila perangkat berkontak dengan deterjen: bilas dengan air bersih yang banyak) atau kerusakan untuk mencegah terjadinya situasi yang tidak aman.
- ◆ Mesin ini sudah dirancang untuk digunakan bersama alat pembersih yang disuplai atau direkomendasikan oleh pabrik produsen. Perhatikan seluruh petunjuk serta peringatan yang tertera terkait bahan kimia sebelum pemakaian. Pakailah pembersih alat pencuci bertekanan tinggi yang dianjurkan. Jangan memakai cairan pemutih, klorin, maupun bahan pembersih apapun yang



mengandung asam. Patuhi selalu label rekomendasi dari pabrik produsen terkait pemakaian cairan pembersih yang tepat.

- ◆ Kenakan kacamata pelindung. Kacamata sehari-hari BUKAN MERUPAKAN kacamata pelindung. Selalu pakai juga masker wajah atau debu bila pekerjaan banyak menghasilkan debu. SELALU KENAKAN ALAT KESELAMATAN YANG TERSERTIFIKASI.
- ◆ Jangan pernah mengarahkan jet pada diri Anda ataupun orang lain untuk membersihkan pakaian maupun alas kaki.
- ◆ Air yang sudah mengalir melewati alat pencegah aliran balik dianggap bukan sebagai air yang bisa diminum.
- ◆ Mesin harus dimatikan dari sumber listrik dengan mencabut steker kabel dari stop kontak listrik ketika pembersihan atau perawatan alat dan selama mengganti fungsi mesin dengan fungsi lainnya.
- ◆ Bila kabel ekstensi sedang dipakai, steker dan stop kontak kabel harus merupakan susunan yang kedap air.
- ◆ Untuk menghindari terjadinya bahaya karena reset perangkat yang tidak disengaja dari alat pemutus termal, perangkat ini tidak boleh diberikan daya melalui alat pemutus/penghubung sirkuit listrik eksternal, seperti timer, atau tersambung dengan sirkuit yang dinyalakan serta dimatikan secara rutin oleh utilitas.
- ◆ Ketahui cara menghentikan mesin dan merembeskan tekanan dengan cepat. Kenali kontrol perangkat secara menyeluruh.
- ◆ Jangan menjalankan mesin ketika Anda dalam kondisi letih atau berada di bawah pengaruh alkohol maupun obat.
- ◆ Ketika mesin menyala, pompa interior perangkat akan mulai dan terus berjalan bahkan walaupun trigger dari tongkat bertekanan belum ditekan.
- ◆ Ketika mesin sedang berjalan, mohon pertahankan agar persediaan air tetap konstan. Tanpa air sirkulasi akan merusak ring penyegel dari mesin.
- ◆ Penting untuk menyalakan tangkai semprotan panjang dalam satu atau dua menit setelah mesin mulai menyala, hal ini bertujuan untuk menghindari terjadinya kerusakan pada ring penyegel yang berada di dalam mesin.
- ◆ Hati-hati terhadap hentakan yang bisa timbul akibat jet air saat mesin dinyalakan.
- ◆ Ketika mesin mulai dipasang, mesin harus berada dalam posisi mendarat. Untuk menggerakkan mesin, tariklah dengan gagangnya.
- ◆ Mesin tidak cocok dipakai untuk sambungan pada saluran air minum. Hubungkan mesin pada sumber air. (Penampung air bisa dipakai).
- ◆ Pipa saluran masuk harus memiliki panjang minimal 5 M. Jangan mempergunakan pipa bila terdapat kerusakan

pada pipa. Bila Anda mau menghubungkan mesin ini dengan saluran air minum, Anda harus memasang alat pencegah aliran balik di dalam pipa air untuk mencegah agar air yang kotor mengalir masuk kembali ke dalam sistem air minum. Alat pencegah aliran balik harus tunduk kepada IEC 60335-2-79 ANNEX AA.

## Risiko residu.

Risiko residu lain dapat timbul bila menggunakan alat yang tidak diberikan bersama peringatan keselamatan yang disertakan. Risiko tersebut dapat timbul karena kesalahan penggunaan, penggunaan dalam waktu lama, dsb.

Meskipun peraturan keselamatan yang relevan diterapkan dan perangkat keselamatan digunakan, risiko residu tertentu tidak dapat dihindari. Risiko tersebut mencakup:

- ◆ Cedera yang terjadi akibat menyentuh suku cadang apapun yang berputar/bergerak.
- ◆ Cedera yang terjadi akibat memindahkan suku cadang, mata pisau atau aksesoris.
- ◆ Cedera karena menggunakan peralatan dalam waktu lama. Saat menggunakan peralatan apa pun dalam waktu lama, pastikan Anda meluangkan waktu untuk beristirahat.
- ◆ Gangguan pendengaran.
- ◆ Bahaya kesehatan yang disebabkan akibat menghirup debu terjadi saat menggunakan alat anda (contohnya:- bekerja dengan kayu, khususnya kayu pohon ek, kayu pohon beech dan MDF.)

## Setelah pemakaian

- ◆ Ketika sedang tidak dipakai, perangkat harus disimpan di tempat yang kering, dengan ventilasi yang baik dan jauh dari jangkauan anak-anak.
- ◆ Jangan sampai anak-anak bisa menjangkau perangkat yang disimpan.
- ◆ Ketika perangkat sedang disimpan atau ditransportasikan dalam kendaraan, perangkat harus ditempatkan dalam bagasi atau diikat untuk mencegah timbulnya pergerakan ketika kendaraan berubah kecepatan atau arah secara tiba-tiba.

## Pemeriksaan dan perbaikan

- ◆ Sebelum digunakan, periksa apakah ada bagian peralatan yang rusak atau cacat. Periksa apakah ada bagian yang pecah, kerusakan tombol, atau kondisi lainnya yang dapat memengaruhi pengoperasian.
- ◆ Jangan gunakan peralatan jika ada bagian yang rusak atau cacat.
- ◆ Minta agen perbaikan resmi untuk memperbaiki atau mengganti bagian yang rusak atau cacat.
- ◆ Jangan coba untuk melepas atau mengganti bagian mana pun selain yang disebutkan dalam panduan ini.

## Petunjuk keselamatan tambahan untuk alat pembersih bertekanan tinggi

Tujuan pemakaian perangkat dituliskan di dalam panduan ini. Pemakaian aksesoris atau alat pelengkap maupun pelaksanaan kegiatan apapun dengan perangkat ini selain yang telah direkomendasikan dalam buku panduan ini bisa berisiko menimbulkan cedera pada diri dan/atau kerusakan harta benda.

- ◆ Untuk melindungi kaki dan tungkai Anda selama menjalankan perangkat, selalu kenakan sepatu kerja dan celana panjang.
- ◆ Selalu matikan produk Anda, perkenankan pompa untuk berhenti ketika:
  - ◆ Anda meninggalkan produk Anda tanpa pengawasan.
  - ◆ Membebaskan sumbatan.
  - ◆ Memeriksa, membuat penyesuaian, membersihkan atau bekerja pada produk Anda.
  - ◆ Perangkat mulai bergetar secara tidak normal.
- ◆ Jangan memosisikan saluran masuk atau keluar dari alat pembersih bertekanan tinggi di dekat mata atau telinga ketika alat sedang dijalankan. Jangan membidik alat ke arah pengamat yang berada di sekitar.
- ◆ Jangan memakai perangkat ketika ada orang lain di sekitar Anda kecuali mereka juga mengenakan pakaian pelindung.
- ◆ Jangan memakai alat saat hujan atau meninggalkan alat di luar ketika sedang hujan.
- ◆ Jet bertekanan tinggi bisa menjadi bahaya bila tidak dipergunakan dengan benar. Jet tidak boleh diarahkan pada orang-orang, hewan, alat listrik yang sedang menyala atau pada perangkat itu sendiri.
- ◆ Jet bertekanan tinggi tidak boleh diarahkan pada orang lain ataupun ke pada diri pengguna untuk membersihkan pakaian maupun alas kaki.
- ◆ Roda kendaraan/mesin rentan mengalami kerusakan akibat jet bertekanan tinggi dan bisa meledak. Indikasi pertama adanya kerusakan adalah perubahan warna pada roda. Roda kendaraan/mesin yang rusak adalah hal yang berbahaya. Jaga jarak minimal dari jet sebesar 30 cm selama pembersihan!
- ◆ Ciptakan kestabilan untuk perangkat sebelum pekerjaan apapun pada atau bersama perangkat, untuk mencegah terjadinya kecelakaan atau kerusakan.
- ◆ Jet air yang dikeluarkan dari nozzle bertekanan tinggi menghasilkan kekuatan hentakan yang kuat pada pistol air tangan. Pastikan Anda memiliki pijakan yang kokoh serta memegang pistol air tangan dan tangkai semprotan panjang dengan kuat.
- ◆ Perangkat mungkin tidak bisa dijalankan pada lingkungan yang mudah meledak.
- ◆ Jangan pernah memakai perangkat untuk membersihkan benda yang mengandung zat berbahaya (contohnya asbestos).
- ◆ Jangan menyemprotkan cairan yang mudah terbakar.
- ◆ Jangan pernah memasukkan cairan yang mengandung pelarut atau asam murni dan pelarut! Cairan-cairan ini meliputi minyak tanah, pengencer cat dan minyak pemanas. Kabut dari semprotannya sangat mudah terbakar, mudah meledak dan beracun. Jangan memakai aseton, asam murni dan pelarut, karena cairan tersebut bisa merusak bahan-bahan yang digunakan pada perangkat.
- ◆ Selang bertekanan tinggi, fixture dan sekrup yang penting untuk keamanan perangkat. Hanya pakai alat-alat yang direkomendasikan oleh pabrik produsen.
- ◆ Saat memutuskan sambungan dari sumber air atau selang bertekanan tinggi, air panas bisa bocor dari sambungannya setelah pekerjaan selesai.
- ◆ Perhatikan berat dari perangkat saat memilih lokasi penyimpanan alat dan selama transportasi alat (lihat data teknis) untuk mencegah terjadinya kecelakaan atau cedera.
- ◆ Beberapa jam setelah pemakaian perangkat yang terus-menerus pada kasus yang langka bisa menimbulkan sensasi baal atau kebas di tangan.
  - ◆ Kenakan sarung tangan.
  - ◆ Jaga agar tangan tetap hangat.
  - ◆ Beristirahatlah secara berkala.
- ◆ Selama pemakaian alat pembersih bertekanan tinggi bisa terbentuk partikel aerosol. Inhalasi dari partikel aerosol bisa berbahaya bagi kesehatan.
  - ◆ Tergantung pemakaiannya, nozzle yang terlindung total (contohnya pembersih permukaan benda) yang bisa mengurangi emisi partikel aerosol cair secara signifikan, dapat dipakai untuk pembersihan dengan tekanan tinggi.
  - ◆ Pemakaian alat pelindung tersebut tidak memungkinkan untuk seluruh kegiatan.
  - ◆ Bila pemakaian nozzle yang terlindung total tersebut tidak memungkinkan, masker pernapasan kategori FFP 2 atau masker sepadan bisa dipakai, tergantung dengan lingkungan yang akan dibersihkan.
- ◆ Jangan meletakkan unit Anda di atas tanah bebatuan saat unit sedang dinyalakan.
- ◆ Selalu pastikan agar pijakan Anda aman, terutama di area yang berlereng. Jangan mengulurkan tangan berlebihan dan jaga selalu keseimbangan Anda.
- ◆ Untuk alasan keamanan, kami merekomendasikan agar Anda menjalankan perangkat hanya melalui perangkat arus residual (maksimal 30 mA).
- ◆ Kabel ekstensi listrik yang tidak cocok bisa menimbulkan bahaya.

Hanya pakai kabel ekstensi listrik yang sudah disetujui dan diberi label untuk tujuan ini, serta memiliki penampang kabel yang adekuat untuk di luar ruangan: 1 – 10 m: 1,5 mm<sup>2</sup>; 10 – 30 m: 2,5 mm<sup>2</sup>.

- ◆ Selalu buka gulungan kabel ekstensi sepenuhnya dari drum kabel.
- ◆ Jangan meletakkan benda apapun ke dalam lubang bukaan alat. Jangan pernah dipakai bila lubang bukaan alat tersumbat – jaga agar lubang bebas dari rambut, serat, debu dan benda apapun yang bisa mengurangi aliran udara.

**Peringatan!** Selalu pakai produk Anda dengan cara yang telah diuraikan dalam buku panduan ini. Produk Anda didesain untuk dipergunakan dalam mode tegak lurus dan bila dipakai dalam mode lainnya dapat menimbulkan cedera. Jangan pernah menjalankan produk Anda saat alat dalam keadaan terbaring atau diposisikan di samping maupun terbalik.

- ◆ Operator atau pengguna memiliki tanggung jawab terhadap kecelakaan atau bahaya yang terjadi pada orang lain atau harta benda milik mereka.
- ◆ Jangan memakai cairan pelarut atau pembersih untuk membersihkan produk Anda.
- ◆ Jaga agar seluruh mur, baut dan sekrup pada perangkat kencang dan pastikan bila perangkat berada dalam kondisi yang aman untuk dipakai bekerja.

## Keselamatan orang lain

- ◆ Mesin ini boleh dipakai oleh orang-orang dengan penurunan kemampuan fisik, indra atau mental, maupun oleh orang yang kurang pengalaman dan pengetahuan bila mereka sudah diberikan pengawasan atau petunjuk terkait pemakaian mesin yang aman dan memahami bahaya terkait yang bisa terjadi.
- ◆ Mesin ini tidak diperuntukkan pemakaiannya oleh anak-anak. Anak-anak harus diawasi untuk memastikan agar mereka tidak memainkan perangkat.

## Keselamatan kerja listrik



Mesin Anda memiliki isolasi ganda; Karena pemasangan kabel arde di tanah tidak diperlukan. Selalu periksa bila sumber listrik utama sudah sesuai dengan tegangan yang tertera pada plat rating perangkat.

- ◆ Bila kabel listrik mengalami kerusakan, kabel harus diganti oleh pabrik produsen atau Pusat Layanan BLACK+DECKER resmi untuk menghindari terjadinya bahaya.

## Label pada peralatan

Simbol berikut ini terdapat pada peralatan bersama kode tanggal:



Baca buku panduan terlebih dahulu sebelum mengoperasikan alat.



Pakai kacamata atau goggle pelindung saat menjalankan perangkat ini.



Pakai pelindung telinga yang sesuai saat menjalankan perangkat ini.



Mesin tidak cocok untuk sambungan pada saluran air minum.



Jangan pernah mengarahkan jet air pada orang-orang, hewan, komponen mesin atau listrik

## Fitur Mesin

Perangkat ini memiliki beberapa atau semua fitur berikut.

1. Selang bertekanan tinggi
2. Tongkat semprot
3. Tombol nozzle
4. Tangkai penyemprot
5. Gagang tangkai penyemprot
6. Pengunci trigger
7. Trigger
8. Kipas semprot pada nozzle pencil jet
9. Konektor selang
10. Filter
11. Penghasil Busa
12. Aplikator Penghasil Busa
13. Pipa keluar air bertekanan tinggi
14. Alat pembersih nozzle
15. Nozzle turbo
16. Unit pencuci bertekanan tinggi
17. Tombol ON/OFF
18. Gagang
19. Gagang yang bisa ditarik (BEPWB2400, BEPWB2400TH)
20. Pipa keluar air bertekanan tinggi
21. Gulungan selang
22. Kait penahan kabel
23. Ujung selang bertekanan
24. Collar selang bertekanan
25. Pipa masuk air
26. Ruang nozzle
27. Ruang tangkai penyemprot
28. Collar selang air
29. Sandaran tangkai penyemprot / nozzle
30. angkai penyemprot pendek (hanya pada unit BEPWB1740TH, BEPWB2000TH, BEPWB2400TH)
31. Tombol pelepas pegangan (hanya BEPWB2400,

BEPWB2400TH)

## Pemasangan

**Peringatan!** Untuk mengurangi risiko terjadinya cedera pribadi yang serius, matikan unit dan putuskan sambungan unit dari sumber listrik sebelum membuat penyesuaian atau melepas/memasang alat pelengkap atau aksesoris. Menyalakan unit dengan tidak disengaja bisa menyebabkan cedera.

### ON/OFF Otomatis:

Mesin pada alat pencuci bertekanan tinggi ini tidak berjalan terus-menerus. Mesin hanya berjalan saat trigger pistol air ditekan. Setelah mengikuti prosedur memulai perangkat yang tercantum dalam buku panduan ini, tekan tombol ON pada alat pencuci bertekanan tinggi dan tekan triggernya untuk mengaktifkan alat. Lihat bagian "Petunjuk Operasional" pada buku panduan ini untuk detail lebih lanjut.

### Merembeskan Pistol:

Sangat penting untuk merembeskan pistol sebelum memakai alat pencuci bertekanan tinggi. Tekan trigger alat untuk membantu mengeluarkan udara yang terjebak dalam perangkat dan selang. Terus tekan trigger sampai aliran air yang stabil mulai keluar dari nozzle. (Proses ini bisa memakan waktu sampai 2 menit). Lihat bagian "Petunjuk Operasional" terkait proses ini.

## Memasang Gagang (Gam. B1)

BEPWB2000/BEPWB2000TH

Tekan gagang (18) pada unit pencuci bertekanan tinggi (16) dan kencangkan dengan baut yang disediakan. Jangan pasang terlalu kencang.

## Pegangan yang Dapat Ditarik (Gambar. A, B2)

BEPWB2400/BEPWB2400TH

Mesin cuci bertekanan ini memiliki pegangan bawaan yang nyaman dan roda pengangkut yang dapat ditarik.

- ◆ Untuk membuka kunci pegangan yang dapat ditarik (19), tekan tombol pelepas pegangan (31) dan geser pegangan ke atas. Anda akan mendengar suara klik saat pegangan terpasang pada posisinya.
- ◆ Untuk menyimpan kembali pegangan yang dapat ditarik (19), tekan tombol pelepas pegangan (31) dan geser pegangan yang dapat ditarik ke bawah dan masukkan ke badan pencuci tekanan. Anda akan mendengar suara klik saat pegangan terpasang pada posisinya.
- ◆ Untuk memindahkan mesin cuci bertekanan (16), miringkan unit sehingga roda pengangkut menyentuh

tanah dan menarik unit dengan pegangan yang dapat ditarik.

## Memasang alat penahan kabel (Gam. L)

Selipkan alat penahan kabel (22) dari atas pada sandaran (22A) di mesin sampai terdengar bunyi "klik".

## Memasang ruang tangkai penyemprot dan sandaran tangkai penyemprot / nozzle (Gam. M)

Geser sarung tangkai penyemprot (27) dari atas pada sandaran (27A) pada mesin sampai terdengar bunyi "klik".

## Memasang Selang Bertekanan Tinggi (Fig. C1, C2, C3)

**Pemberitahuan:** Jangan pernah menarik selang bertekanan tinggi atau selang suplai air untuk menggerakkan pencuci air bertekanan tinggi. Hal ini bisa merusak selang dan/atau kanal pompa dan/atau pipa keluar pompa.

- ◆ Untuk menghubungkan selang bertekanan tinggi (1) pada tangkai penyemprot (4/30), tekan tombol penghubung selang (13) sembari memasukkan ujung selang (23) ke dalam tangkai penyemprot. Lepaskan tombol penghubung selang saat ujung selang sudah masuk ke dalam posisinya dan mengeluarkan bunyi klik.
- ◆ Untuk menghubungkan selang bertekanan tinggi pada unit pencuci bertekanan tinggi (16), kencangkan collar selang (24) pada pipa keluar air bertekanan tinggi (20).

BEPWB1740/BEPWB1740LP/BEPWB1740TH,  
BEPWB2000/BEPWB2000TH

- ◆ Untuk menghubungkan selang bertekanan tinggi (1) pada tangkai penyemprot (4/30), tekan tombol penghubung selang (13) sembari memasukkan ujung selang (23) ke dalam tangkai penyemprot. Lepaskan tombol penghubung selang saat ujung selang sudah masuk ke dalam posisinya dan mengeluarkan bunyi klik.

**Catatan:** Uraikan selang bertekanan tinggi sebelum pemasangan untuk mencegah selang terbelit.

**Catatan:** Hindari persilangan dari gulungan selang saat memasang selang. Persilangan dari gulungan selang akan menyebabkan kebocoran.

## Memasang Tangkai Penyemprot (Gam. D)

- ◆ Untuk menghubungkan tangkai penyemprot (4/30) pada tongkat semprot (2), masukkan ujung tangkai penyemprot pada ujung tangkai semprot.
- ◆ Tekan dan putar tangkai penyemprot pada arah yang berlawanan jarum jam untuk mengunci alat ke dalam posisinya.

## Memasang Selang Air (Gam. E, N2, N3)

**Catatan:** Sebelum menyambungkan selang air pada unit bertekanan tinggi, alirkan air melalui selang air selama tiga puluh detik untuk membersihkan serpihan dari dalam selang air.

- ◆ Untuk menghubungkan selang air pada unit pencuci bertekanan tinggi (16) , kencangkan filter (10) pada pipa masuk air (25) .
- ◆ Sambungkan selang air (28) pada konektor selang (9) dengan melonggarkan baut konektor garden dan pasang selang pada konektornya.
- ◆ Masukkan selang air (28) yang terpasang dengan konektor garden pada filter (10) sampai terdengar bunyi “klik”.

**Catatan:** Selalu cabut selang air setelah penggunaan.

## Memasang Nozzle (Gam. A, D)

**Bahaya!** Risiko injeksi cairan. Jangan mengarahkan keluarannya aliran air pada orang-orang, kulit, mata, peliharaan atau hewan yang tidak terlindungi. Bisa terjadi cedera serius.

**Peringatan!** Benda yang beterbangan bisa menyebabkan risiko cedera serius. JANGAN mencoba mengganti nozzle saat pencuci bertekanan tinggi sedang berjalan. MATIKAN unit pencuci bertekanan tinggi sebelum mengganti nozzle.

- ◆ Untuk menghubungkan nozzle pada tongkat semprot (2), tekan tombol nozzle (3) pada tongkat semprot dan masukkan nozzle yang sesuai.
- ◆ Lepaskan tombol yang mengunci nozzle di tempatnya.
- ◆ Tarik nozzle dengan kuat untuk memastikan bahwa nozzle
- ◆ telah terkunci pada tempatnya

**Catatan:** nozzle kipas 60° hanya pas pada tangkai penyemprot pendek, bukan pada tangkai penyemprot standar.

## Kipas Semprot pada Nozzle Jet

### Mengatur Pola Kipas (Gam. F1, F2)

Sudut semprotan yang keluar dari tongkat semprot bisa diatur dengan memutar nozzle. Hal ini akan mengubah pola penyemprotan dari aliran berdaya tinggi sekitar 0 sampai penyemprotan kipas yang lebar yaitu 60.

Pola kipas yang lebar akan mendistribusikan daya dari air ke area yang lebih besar, membuat pembersihan menjadi sangat baik dengan berkurangnya risiko kerusakan di permukaan.

Area permukaan yang lebih besar bisa dibersihkan lebih cepat dengan menggunakan pola kipas yang lebih besar.

Aliran jet yang sempit mendistribusikan daya air dalam area yang terpusat, memberikan gaya dengan dampak tinggi pada permukaan pembersihan. Gunakan aliran jet yang sempit untuk pembersihan intensif pada area yang terpusat. Namun,

gunakan dengan hati-hati, karena metode ini bisa merusak beberapa permukaan benda.

Pemakaian Ujung	Semprotan
Kipas semprot pada nozzle jet	Untuk pembersihan ringan pada area yang luas
Nozzle Turbo	Untuk pembersihan abrasif

## Memasang Penghasil Busa (Gam. I)

Untuk menghubungkan penghasil busa (11) pada tangkai penyemprot (4), masukkan ujung penghasil busa ke dalam tangkai penyemprot dan putar penghasil busa ke arah yang berlawanan jarum jam untuk mengunci botol di posisinya.

**Catatan:** Tongkat semprot dan penghasil busa tidak bisa dipasang di saat yang sama.

**Catatan:** Penghasil busa harus dipoisikan di bawah barel tangkai penyemprot. Jangan letakkan penghasil busa di atas barel pistol plastik karena hal ini akan membuat sabun menetes di atas barel.

## Operasional

**Peringatan!** Unit ini HANYA BOLEH terhubung dengan sumber air yang dingin.

**Peringatan!** Mesin alat pencuci bertekanan tinggi ini TIDAK akan bekerja. Alat hanya beroperasi saat trigger ditekan.

- ◆ Hubungkan selang pipa air pada alat pencuci dan sambungkan pistol air dengan selang tersebut.
- ◆ Hubungkan nozzle dengan ekstensi nozzle.
- ◆ Periksa kasa penyaring bila sudah bersih dari adanya sumbatan.
- ◆ Sambungkan selang persediaan air.
- ◆ Periksa bila selang air tidak terbelit.
- ◆ Nyalakan air dan periksa bila ada kebocoran.
- ◆ Tekan trigger ke bawah untuk menghembuskan udara keluar melalui pompa dan selang, trigger pengunci.
- ◆ Pasang kabel mesin dan nyalakan saklarnya.
- ◆ Buka kunci trigger dan pakai alat pencuci bertekanan tinggi.

## Mematikan alat

- ◆ Matikan mesin (tekan saklar pada posisi off).
- ◆ Cabut kabel unit dari sumber listrik.
- ◆ Matikan sumber air.
- ◆ Tekan trigger pistol untuk menurunkan tekanan sistem.
- ◆ Cabut sambungan kabel air dari alat pencuci bertekanan tinggi.
- ◆ Bersihkan seluruh permukaan unit dengan kain yang bersih dan lembap.
- ◆ Aktifkan kunci pengaman pistol.

**Perhatian:** SELALU matikan mesin unit SEBELUM mematikan sumber air dari unit. Bisa terjadi kerusakan mesin yang serius bila unit menyala tanpa air.

**Perhatian:** JANGAN PERNAH mencabut sambungan dari selang pelepas tekanan tinggi dari mesin selama tekanan pada sistem masih ada. Untuk menurunkan tekanan unit, matikan mesin, lalu matikan sumber air dan tekan trigger selama 2-3 kali.

## Posisi Tangan yang Tepat (Gam. G)

**Peringatan!** Untuk mengurangi risiko terjadinya cedera pribadi yang serius, selalu terapkan posisi tangan yang tepat seperti yang diperlihatkan ini. 12 Bahasa Indonesia

**Peringatan!** Untuk mengurangi risiko terjadinya cedera pribadi yang serius, selalu pegang alat dengan kuat untuk mengantisipasi munculnya reaksi yang mendadak. Posisi tangan yang tepat mengharuskan satu tangan berada di gagang tangkai penyemprot (5) dan tangan lainnya pada tangkai penyemprot (4).

## Petunjuk pembersihan pin (Gam. J)

- ◆ Dengan memakai pembersih tip yang sudah termasuk unit, atau klip kertas yang terbuka, masukkan kawat ke dalam lubang nozzle dan gerakkan maju-mundur sampai serpihan di dalamnya keluar.
- ◆ Singkirkan serpihan yang masih ada dengan melakukan back flush atau mengalirkan air kembali melalui nozzle. Untuk melakukannya, pasang ujung selang air (dengan air yang menyala) di ujung nozzle selama 30-60 detik.

## Pembersihan Filter (Gam. K)

Periksa filter sebelum setiap penggunaan dan bersihkan bila perlu. Lepaskan elemen filter dan jalankan di bawah air bersih untuk membersihkan serpihan yang ada.

## Self-Priming (Gam. C, E, N1, N2, N3, N4, N5, N6, N7)

- ◆ Sambungkan selang kanal pada pencuci bertekanan tinggi. Mengacu pada Pemasangan Selang Bertekanan Tinggi.
- ◆ Letakkan ujung bebas selang dengan filter yang terpasang pada sumber air alternatif (contohnya ember, dll.)
- ◆ Sambungkan selang bertekanan tinggi pada tangkai penyemprot. Mohon mengacu pada Pemasangan Selang Bertekanan Tinggi.
- ◆ Pasang kabel unit pencuci bertekanan tinggi pada sumber listrik.
- ◆ Jalankan mesin pencuci bertekanan tinggi dengan memutar tombol ON/OFF ke dalam posisi ON.
- ◆ MATIKAN pencuci bertekanan tinggi sesaat setelah air menyemprot keluar dari tabung pipa keluar air dari unit.
- ◆ Cabut kabel unit pencuci bertekanan tinggi dari sumber listrik.

- ◆ Pasang selang bertekanan tinggi pada pipa keluar air bertekanan tinggi.
- ◆ Pasang kabel unit pencuci bertekanan tinggi pada sumber listrik.
- ◆ Jalankan mesin pencuci bertekanan tinggi dengan memutar tombol ON/OFF ke dalam posisi ON.
- ◆ Jalankan trigger tangkai penyemprot untuk memulai pembersihan.

## Pemeliharaan

**Peringatan!** Untuk mengurangi risiko terjadinya cedera pribadi yang serius, matikan unit dan putuskan sambungan unit dari sumber listrik sebelum membuat penyesuaian atau melepas/memasang alat pelengkap atau aksesoris. Menyalakan unit secara tidak disengaja bisa menyebabkan cedera.

## Pembersihan

**Peringatan!** Bersihkan kotoran dan debu keluar dari semua ventilasi udara dengan bersih, keringkan minimal sekali dalam seminggu.

Untuk meminimalisir risiko cedera pada mata, selalu gunakan alat pelindung mata yang telah disetujui saat melakukan prosedur ini.

**Peringatan!** Jangan pernah menggunakan pelarut atau bahan kimia keras lainnya untuk membersihkan bagian non-logam dari mesin. Bahan kimia ini bisa memperlemah bahan-bahan plastik yang digunakan pada bagian ini. Gunakan kain yang hanya dibasahi dengan air dan sabun ringan. Jangan pernah biarkan cairan apapun memasuki mesin; jangan pernah merendam bagian apapun dari mesin ke dalam cairan.

## Penyimpanan (Gam. O, P)

- ◆ Simpan di tempat yang kering, tertutup di atas suhu beku. SIMPAN DI DALAM RUANGAN.
- ◆ Selalu kosongkan air sepenuhnya dari selang bertekanan tinggi, unit pencuci bertekanan tinggi, nozzle, dan tongkat semprot.
- ◆ Nozzle bisa disimpan dalam unit seperti yang diperlihatkan pada Gam.O.

**Catatan:** turbo (BEPW2200/BEPW2200TH) atau pen pada nozzle kipas bisa disimpan pada tongkat semprot.

- ◆ Kabel listrik bisa disimpan melingkar dan diamankan dengan kait penahan kabel (22) seperti yang diperlihatkan pada Gam.P.
- ◆ Selang bertekanan tinggi (1) bisa disimpan melingkar dan diamankan pada gagang (18) dengan bantuan kait (18a) (BEPWB2000).
- ◆ Tangkai penyemprot yang dipasang bersama tongkat dan nozzle bisa disimpan di dalam ruang (26) di samping mesin (Gam. P).

## Aksesoris

**Peringatan!** Karena aksesoris, selain yang ditawarkan oleh BLACK+DECKER, belum diuji bersama produk ini, penggunaan aksesoris tersebut dengan produk ini bisa saja berbahaya. Untuk mengurangi risiko terjadinya cedera, hanya gunakan aksesoris BLACK+DECKER yang direkomendasikan untuk produk ini.

Aksesoris yang direkomendasikan untuk digunakan dengan mesin anda tersedia dengan biaya tambahan dari penjual daerah anda atau dari pusat layanan resmi. Bila anda memerlukan bantuan dalam mencari aksesoris apapun, mohon hubungi [www.blackanddecker.com](http://www.blackanddecker.com).

## Melindungi lingkungan



Pembuangan terpisah. Produk dan baterai yang ditandai dengan simbol ini tidak boleh dibuang bersama dengan sampah rumah tangga biasa.

Produk dan baterai berisi bahan yang dapat digunakan kembali atau didaur ulang yang mengurangi permintaan kebutuhan bahan baku. Harap mendaur ulang produk listrik dan baterai sesuai dengan ketentuan setempat.

## Pemecahan Masalah

Gejala	Kemungkinan Penyebab	Solusi
Saat menyalakan perangkat, mesin tidak mau bekerja	1. Steker tidak tersambung dengan baik atau stop kontak listrik rusak.	1. Periksa steker atau stop kontaknyanya.
	2. Tegangan listrik utama tidak cukup, tegangan lebih rendah dari persyaratan minimal.	2. Periksa bila tegangan listrik utama sudah adekuat.
	3. Pompa tersangkut.	3. Bisa mengacu pada petunjuk pasca penyimpanan.
	4. Saklar pengaman termal trip atau terlepas jaringan transmisi listriknya.	4. Matikan unit dan biarkan mesin untuk mendingin selama beberapa menit. 5. Biarkan tangkai semprotan panjang terbuka.
Tekanan yang Berubah-Ubah	1. Pompa menghisap udara.	1. Periksa bila selang dan sambungannya sudah tersegel dan kedap udara.
	2. Katup kotor, aus atau tersangkut. Segel pompa sudah aus.	2. Bersihkan dan ganti alat, atau bisa mengontak dealer.
Air bocor keluar dari pompa.	Segel sudah aus.	Periksa dan ganti alat, atau bisa mengontak dealer.
Mesin berhenti bekerja tiba-tiba.	Saklar pengaman termal mengalami trip karena suhu terlalu panas.	Periksa bila tegangan listrik utama sudah sesuai dengan spesifikasi mesin. Matikan unit dan biarkan alat mendingin selama beberapa menit.

Pompa tidak mencapai tekanan yang diperlukan.	1. Filter kanal air tersumbat.	1. Periksa filter kanal air.
	2. Pompa menghisap udara dari sambungan atau selang.	2. Periksa bila seluruh sambungan pada unit sudah terpasang kencang.
	3. Katup penghisap/pengantar dari unit tersumbat atau aus.	3. Periksa bila selang air tidak bocor.
	4. Katup pelepas udara tersangkut.	4. Bersihkan atau ganti katup pada mesin.
	5. Nozzle tongkat tidak terpasang benar atau aus.	5. Longgarkan dan kencangkan ulang baut pada mesin. 6. Periksa dan/atau ganti alat.

## Informasi Servis

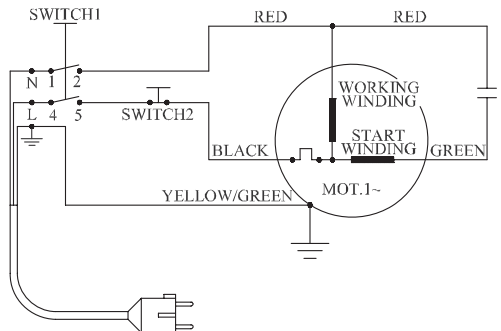
BLACK+DECKER menawarkan jaringan lengkap lokasi servis resmi milik perusahaan di seluruh Asia. Semua Pusat Servis BLACK+DECKER memiliki staf terlatih agar dapat memberikan layanan produk yang efisien dan andal kepada konsumen.

Bila Anda membutuhkan saran teknis, perbaikan, atau suku cadang pengganti asli pabrik, hubungi lokasi BLACK+DECKER terdekat.

## Catatan

- ◆ Kebijakan BLACK+DECKER adalah penyempurnaan berkelanjutan pada produk-produk kami dan, oleh karena itu, kami berhak untuk mengganti spesifikasi produk tanpa pemberitahuan sebelumnya.
- ◆ Peralatan dan aksesoris standar bisa bervariasi di setiap negara.
- ◆ Spesifikasi produk bisa berbeda di setiap negara.
- ◆ Jaringan produk lengkap bisa saja tidak tersedia di seluruh negara.
- ◆ Hubungi penjual BLACK+DECKER daerah anda untuk ketersediaan produk.

## DIAGRAM LISTRIK



Black & Decker (U.S.) Inc.  
701 East Joppa Rd, Towson, Maryland 21286 U.S.A



**BEPWB1740, BEPWB1740LP, BEPWB2000, BEPWB2400,  
BEPWB1740TH, BEPWB2000TH, BEPWB2400TH**  
**เครื่องฉีดน้ำแรงดันสูง**

ข้อมูลทางเทคนิค

		BEPWB1740 230-240V~ 50HZ	BEPWB1740LP 230-240V~ 50HZ	BEPWB1740 220V~ 60HZ	BEPWB1740TH 220V~ 50HZ
กำลังไฟ	W	1500	900	1500	1500
พิกัดอัตราการไหล	L/min	4.8	4.8	4.8	4.8
อัตราการไหลสูงสุดของน้ำ	L/min	5.3	5.3	5.3	5.3
พิกัดแรงดัน	Bar /PSI	80 / 1160	60 / 870	80 / 1160	80 / 1160
แรงดันสูงสุด	Bar/PSI	120 / 1740	90 / 1300	120 / 1740	120 / 1740
อุณหภูมิทางเข้าสูงสุด	°C	50	50	50	50
แรงดันขาเข้าสูงสุด	Bar	10	10	10	10
แรงผลักรองปืนที่มีต่อแรงดันสูงสุด	N	34	34	34	34
การปกป้องมอเตอร์		IPX5	IPX5	IPX5	IPX5
น้ำดี		น้ำใสเย็น	น้ำใสเย็น	น้ำใสเย็น	น้ำใสเย็น
น้ำหนัก	Kg	10.7	10.7	10.7	10.7

		BEPWB2000 230-240V~ 50HZ	BEPWB2000 220V~ 60HZ	BEPWB2000TH 220V~ 50HZ
กำลังไฟ	W	1800	1800	1800
พิกัดอัตราการไหล	L/min	5.7	5.7	5.7
อัตราการไหลสูงสุดของน้ำ	L/min	6.7	6.5	6.7
พิกัดแรงดัน	Bar /PSI	90 / 1305	90 / 1305	90 / 1305
แรงดันสูงสุด	Bar/PSI	135 / 1950	135 / 1950	135 / 1950
อุณหภูมิทางเข้าสูงสุด	°C	50	50	50
แรงดันขาเข้าสูงสุด	Bar	10	10	10
แรงผลักรองปืนที่มีต่อแรงดันสูงสุด	N	34	34	34
การปกป้องมอเตอร์		IPX5	IPX5	IPX5
น้ำดี		น้ำใสเย็น	น้ำใสเย็น	น้ำใสเย็น
น้ำหนัก	Kg	14.4	14.4	14.4

		BEPWB2400 230-240V~ 50HZ	BEPWB2400 220V~ 60HZ	BEPWB2400TH 220V~ 50HZ
กำลังไฟ	W	2100	2100	2100
พิกัดอัตราการไหล	L/min	5.7	5.7	5.7

อัตราการไหลสูงสุดของน้ำ	L/min	6.7	6.5	6.7
พิกัดแรงดัน	Bar /PSI	110 / 1595	110 / 1595	110 / 1595
แรงดันสูงสุด	Bar/PSI	165 / 2390	165 / 2390	165 / 2390
อุณหภูมิทางเข้าสูงสุด	°C	50	50	50
แรงดันขาเข้าสูงสุด	Bar	10	10	10
แรงผลักรองน้ำที่มีต่อแรงดันสูงสุด	N	34	34	34
การปกป้องมอเตอร์		IPX5	IPX5	IPX5
น้ำดี		น้ำใสเย็น	น้ำใสเย็น	น้ำใสเย็น
น้ำหนัก	Kg	16.6	16.6	16.6

### วัตถุประสงค์การใช้งาน

เครื่องฉีดน้ำแรงดันสูงของ BLACK+DECKER รุ่น BEPWB1740, BEPWB1740LP, BEPWB1740TH, BEPWB2000, BEPWB2000TH, BEPWB2400 และ BEPWB2400TH ของคุณได้รับการออกแบบมาสำหรับการทำความสะอาดรถยนต์ รถจักรยานยนต์ และอุปกรณ์กลางแจ้งอื่นๆ หรือลานในสวน เรือนกระจก หรือพื้นผิวกลางแจ้งอื่นๆ

### คำแนะนำความปลอดภัย

**คำเตือน!** เมื่อใช้อุปกรณ์ที่ทำงานด้วยไฟฟ้า/อุปกรณ์แบบไร้สาย คุณจะต้องปฏิบัติตามข้อพึงระวังเพื่อความปลอดภัยขั้นพื้นฐานรวมถึงสิ่งต่างๆ ดังต่อไปนี้อยู่เสมอเพื่อลดความเสี่ยงจากไฟไหม้ ไฟฟ้าดูด การบาดเจ็บส่วนบุคคล และความเสี่ยงหายที่เกิดขึ้นกับทรัพย์สิน



ห้ามหันเครื่องฉีดน้ำไปทางคน สัตว์ เครื่องจักร หรือองค์ประกอบไฟฟ้าต่างๆ

**คำเตือน!** เครื่องฉีดน้ำแรงดันสูงสามารถเป็นอันตรายได้หากถูกนำไปใช้งานอย่างไม่ถูกต้อง



**คำเตือน!** ตามกฎของบังคับที่บังคับใช้นั้น คุณจะต้องใช้ใช้อุปกรณ์นี้กับใคร่ช่ยน้ำดื่มโดยเด็ดขาดหากไม่มีการใช้อุปกรณ์แยกระบบใช้อุปกรณ์แยกระบบ 61770 ประเภท BA น้ำที่ไหลผ่านอุปกรณ์แยกระบบจะถือว่าเป็นน้ำที่สามารถดื่มได้

- ◆ ปฏิบัติตามกฎของบังคับของบริษัทการประปาของคุณ
- ◆ สายยางสำหรับการเชื่อมต่อทั้งหมดจะต้องมีข้อต่อที่ได้รับการซีลอย่างเหมาะสม
- ◆ ตรวจสอบให้แน่ใจว่าสายยางจ่ายน้ำมีขนาดเส้นผ่านศูนย์กลางอย่างน้อย 12.7 มม รวมถึงได้รับการเสริมแรง
- ◆ คุณจะคงต้องใช้ใช้อุปกรณ์นี้ในการจ่ายน้ำดื่ม โดยที่ไม่มีการใช้วาล์วป้องกันการไหลย้อนกลับน้ำที่ผ่าน วาล์ว

ป้องกันการไหลย้อนกลับจะไม่ถือว่าเป็นน้ำที่สามารถดื่มได้

- ◆ อ่านคู่มือเล่มนี้ทั้งหมดอย่างละเอียดก่อนใช้งานเครื่องมือนี้
- ◆ วัตถุประสงค์การใช้งานได้อธิบายไว้ในคู่มือนี้แล้ว การใช้อุปกรณ์เสริมหรืออุปกรณ์ยึดติด หรือการใช้งานใดๆ กับเครื่องมือนี้นอกเหนือจากที่ได้นแนะนำในคู่มือการใช้งานนี้ อาจเสี่ยงต่อการได้รับบาดเจ็บ
- ◆ เก็บรักษาเครื่องมือนี้ไว้เพื่อการอ้างอิงในอนาคต
- ◆ การเชื่อมต่อแหล่งจ่ายไฟจะต้องได้รับการดำเนินการโดยช่างไฟฟ้าที่มีคุณสมบัติเหมาะสม และจะต้องเป็นไปตาม IEC 60364-1 เราขอแนะนำว่า แหล่งจ่ายไฟสำหรับอุปกรณ์นี้จะต้องมีเครื่องตัดไฟรั่วซึ่งจะขัดขวางการจ่ายไฟหากเกิดกระแสไฟรั่วลงพื้นเกิน 30 mA เป็นเวลา 30 ms หรืออุปกรณ์ที่จะช่วยเรื่องวงจรสายคืน
- ◆ อุปกรณ์นี้ไม่ได้มีเจตนาเพื่อการใช้งานโดยบุคคล (รวมถึงเด็ก) ซึ่งมีความบกพร่องทางกายภาพ ประสาทสัมผัส หรือสภาพจิต หรือขาดประสบการณ์และความรู้
- ◆ เด็กจะต้องได้รับการควบคุมดูแลเพื่อให้แน่ใจได้ว่าเด็กจะไม่เล่นกับอุปกรณ์นี้
- ◆ หากสายจ่ายไฟขาดเสียหาย สายจ่ายไฟดังกล่าวจะต้องได้รับการเปลี่ยนใหม่โดยผู้ผลิต ตัวแทนบริการของผู้ผลิต หรือบุคคลที่มีคุณสมบัติในลักษณะเดียวกันเพื่อหลีกเลี่ยงอันตราย
- ◆ คำเตือน: เครื่องฉีดน้ำนี้ได้รับการออกแบบมาสำหรับการใช้งานกับสารทำความสะอาดซึ่งได้รับการจัดหาหรือแนะนำโดยผู้ผลิต การใช้สารทำความสะอาดหรือสารเคมีอื่นๆ อาจส่งผลกระทบต่อความปลอดภัยของเครื่องฉีดน้ำได้
- ◆ คำเตือน: ระหว่างการใช้งานเครื่องฉีดน้ำแรงดันสูง อาจจะทำให้เกิดละอองลอยขึ้นได้ การสูดดมละอองลอยเข้าไปสามารถเป็นอันตรายต่อสุขภาพได้
- ◆ คำเตือน: เครื่องฉีดน้ำแรงดันสูงสามารถเป็นอันตรายได้หากถูกนำไปใช้งานอย่างไม่ถูกต้อง คุณจะต้อง

ไม่หันเครื่องฉีดน้ำไปหาคน อุปกรณ์ไฟฟ้าที่มีกระแสไฟฟ้า หรือตัวเครื่องฉีดน้ำเอง

- ◆ คำเตือน: ห้ามใช้เครื่องฉีดน้ำภายในระยะที่มีคนหากบุคคลดังกล่าวไม่ได้สวมชุดป้องกัน
- ◆ คำเตือน: ห้ามหันเครื่องฉีดน้ำไปหาตัวคุณเองหรือผู้อื่นเพื่อทำความสะอาดเสื้อผ้าหรือรองเท้า
- ◆ คำเตือน: ความเสี่ยงจากการกระเบิด – ห้ามพ่นของเหลวไวไฟ
- ◆ คำเตือน: เด็กหรือบุคคลากรซึ่งไม่ได้รับการฝึกอบรมจะต้องไม่ใช่เครื่องฉีดน้ำแรงดันสูง
- ◆ คำเตือน: สายฉีดน้ำแรงดันสูง ปะเก็น และคัปปลิ่งเป็นสิ่งที่มีความสำคัญต่อความปลอดภัยของเครื่องฉีดน้ำ ใช้เฉพาะสายฉีดน้ำ ปะเก็น และคัปปลิ่งที่ได้รับการแนะนำโดยผู้ผลิตเท่านั้น
- ◆ คำเตือน: เพื่อให้แน่ใจได้ถึงความปลอดภัยของเครื่องฉีดน้ำ คุณจะต้องใช้เฉพาะอะไหล่ของแท้จากผู้ผลิตหรืออะไหล่ที่ได้รับการอนุญาตจากผู้ผลิตเท่านั้น
- ◆ คำเตือน: น้ำที่ไหลผ่านอุปกรณ์ป้องกันการไหลกลับจะไม่ถือว่าเป็นน้ำที่สามารถดื่มได้
- ◆ คำเตือน: ห้ามใช้เครื่องฉีดน้ำหากสายจ่ายไฟหรือขั้วส่วนสำคัญของเครื่องฉีดน้ำชำรุดเสียหาย เช่น อุปกรณ์นักรัย สายฉีดน้ำแรงดันสูง ปืนฉีดน้ำ
- ◆ คำเตือน: สายต่อพ่วงที่ไม่เพียงพอสสามารถเป็นอันตรายได้ หากมีการใช้สายต่อพ่วง สายต่อพ่วงดังกล่าวจะต้องเหมาะสมสำหรับการใช้งานกลางแจ้งในขณะทำการเชื่อมต่อจะต้องแห้งและอยู่เหนือพื้นดินอยู่เสมอ เราแนะนำว่า เรื่องดังกล่าวสามารถทำได้โดยใช้ม้วนเก็บสายไฟซึ่งจะทำให้ได้รับอยู่ที่เหนือพื้นอย่างน้อย 60 มม.
- ◆ คำเตือน: ห้ามใช้เครื่องฉีดน้ำซึ่งทำงานโดยเครื่องยนต์สันดาปภายในอาคารหากไม่มีการประเมินการระบายอากาศที่เพียงพอโดยหน่วยงานด้านแรงงานของประเทศ
- ◆ คำเตือน: ตรวจสอบให้แน่ใจว่า ไม่มีการปล่อยไอเสียอยู่ใกล้กับช่องลมเข้า
- ◆ คำเตือน: ปิดสวิตซ์ตัดการเชื่อมต่อไฟฟ้าอยู่เสมอเมื่อทิ้งเครื่องจักรไว้โดยไม่มีใครดูแล
- ◆ คำเตือน: คุณสามารถใช้หัวฉีดซึ่งได้รับการป้องกันสำหรับการทำความสะอาดแรงดันสูงได้โดยจะขึ้นอยู่กับการใช้งาน การทำดังกล่าวจะลดการปล่อยละอองลอยที่เป็นน้ำได้เป็นอย่างมาก อย่างไรก็ตาม การใช้หัวฉีดดังกล่าวอาจไม่สามารถใช้ได้กับการใช้งานบางประเภท
- ◆ หากไม่ได้ใช้หัวฉีดซึ่งได้รับการป้องกันสำหรับการป้องกันละอองลอย คุณจะต้องใช้หน้ากากป้องกันระบบทางเดินหายใจประเภท FFP 2 หรือเท่าเทียม โดยจะขึ้นอยู่กับสภาพแวดล้อมของการทำความสะอาด

- ◆ คุณจะต้องไม่หันกระแสน้ำไปที่อุปกรณ์ซึ่งมีองค์ประกอบไฟฟ้า เช่น ด้านในของเตาอบ เป็นต้น
- ◆ ห้ามใช้อุปกรณ์นี้หากอุปกรณ์ตกลงพื้น หากมีสัญญาณของความเสียหายที่สามารถมองเห็นได้ด้วยตาเปล่า หรือหากเกิดการรั่วไหล
- ◆ ใช้แว่นตานิรภัยหรือแว่นตากันลมอยู่เสมอ
- ◆ เครื่องฉีดน้ำนี้ไม่ได้มีเจตนาสำหรับการใช้งานโดยบุคคลต่างๆ (รวมถึงเด็ก) ซึ่งมีความบกพร่องทางกายภาพ ประสาทสัมผัส หรือจิตใจ หรือขาดประสบการณ์และความรู้ ห้ามใช้งานเครื่องฉีดน้ำในขณะที่มีคนโดยเฉพาะอย่างยิ่งเด็กหรือสัตว์เลี้ยงอยู่ใกล้ๆ
- ◆ ห้ามปล่อยให้เด็กหรือสัตว์เข้ามาใกล้บริเวณการทำงาน หรือสัมผัสกับเครื่องฉีดน้ำหรือสายจ่ายไฟ
- ◆ การควบคุมดูแลอย่างใกล้ชิดถือเป็นสิ่งจำเป็นหากมีการใช้อุปกรณ์ใกล้กับเด็ก
- ◆ อุปกรณ์นี้ไม่ได้มีเจตนาในการใช้งานโดยเด็กเล็กหรือผู้ที่อ่อนแอหากปราศจากการควบคุมดูแล
- ◆ คุณจะต้องไม่ใช้อุปกรณ์นี้เป็นของเล่น
- ◆ ใช้อุปกรณ์นี้เฉพาะในเวลากลางวันหรือเมื่อมีแสงประดิษฐ์ที่เพียงพอเท่านั้น
- ◆ ใช้อุปกรณ์นี้ในสถานที่ที่แห้งเท่านั้น ห้ามปล่อยให้ อุปกรณ์นี้เปียก
- ◆ หลีกเลี่ยงการใช้อุปกรณ์นี้ในสภาพอากาศที่ย่ำแย่โดยเฉพาะอย่างยิ่งเมื่อมีความเสี่ยงจากฟ้าผ่า
- ◆ ห้ามแช่อุปกรณ์นี้ในน้ำ
- ◆ ห้ามเปิดโครงของตัวเครื่อง ไม่ขึ้นส่วนที่สามารถซ่อมบำรุงได้โดยผู้ใช้อยู่ที่ด้านใน
- ◆ ห้ามใช้งานอุปกรณ์นี้ในสภาพแวดล้อมที่อาจเกิดการระเบิดได้ เช่น เมื่อมีของเหลวไวไฟ ก๊าซ หรือฝุ่นละออง
- ◆ คุณจะต้องใช้อุปกรณ์นี้กับอุปกรณ์จ่ายไฟซึ่งจัดหามาให้พร้อมกับอุปกรณ์นี้เท่านั้น
- ◆ คุณจะต้องใช้เครื่องฉีดน้ำที่อุณหภูมิสูงกว่า 0 องศาเท่านั้น
- ◆ คุณจะต้องปฏิบัติตามวิธีการดำเนินการดังต่อไปนี้ในกรณีที่เกิดอุบัติเหตุ (เช่น การสัมผัสกับสารซักฟอก: ล้างออกโดยใช้น้ำสะอาดจำนวนมาก) หรือการชำรุดเพื่อป้องกันไม่ให้เกิดสถานการณ์ที่ไม่ปลอดภัย
- ◆ เครื่องฉีดน้ำนี้ได้รับการออกแบบมาสำหรับการใช้งานกับสารทำความสะอาดที่จัดหามาให้หรือได้รับการแนะนำโดยผู้ผลิต ปฏิบัติตามคำแนะนำและคำเตือนเกี่ยวกับสารเคมีด้วยความระมัดระวังก่อนที่จะใช้งาน ใช้เฉพาะเครื่องฉีดน้ำแรงดันสูงที่ได้รับการอนุญาตเท่านั้น ห้ามใช้สารฟอกขาว คลอรีน หรือน้ำยาทำความสะอาดอื่นใดซึ่งมีส่วนประกอบของกรด ปฏิบัติตามคำแนะนำบนฉลากของผู้ผลิตอยู่เสมอเพื่อการใช้น้ำยาทำความสะอาดที่เหมาะสม
- ◆ ใช้แว่นตานิรภัย แว่นตาที่ใช้ในชีวิตประจำวันไม่ได้เป็นแว่นตานิรภัย ใช้หน้ากากป้องกันใบหน้าหรือหมวก

## การใช้งานอุปกรณ์ของคุณ

ให้ความใส่ใจอยู่เสมอเมื่อคุณใช้อุปกรณ์นี้

ป้องกันฝนหากการทำงานเต็มไปด้วยฝนละออง สวมอุปกรณ์เพื่อความปลอดภัยที่ได้รับการรับรองอยู่เสมอ

- ◆ ห้ามหันเครื่องฉีดน้ำไปหาตัวคุณเองหรือผู้อื่นเพื่อทำความสะอาดเสื้อผ้าหรือรองเท้า
- ◆ น้ำที่ไหลผ่านอุปกรณ์ป้องกันการไหลกลับจะไม่ถือว่าเป็นน้ำที่สามารถดื่มได้
- ◆ คุณจะต้องตัดการเชื่อมต่อเครื่องฉีดน้ำจากแหล่งจ่ายไฟโดยการถอดปลั๊กออกจากเต้ารับ-ปลั๊กสามตา ระหว่างการทำความสะอาดหรือการบำรุงรักษา และเมื่อเปลี่ยนฟังก์ชันการทำงานของเครื่องฉีดน้ำ
- ◆ หากใช้สายต่อพ่วง ปลั๊กและเต้ารับจะต้องเป็นแบบกันน้ำ
- ◆ เพื่อหลีกเลี่ยงอันตรายที่เกิดการรีเซ็ตการตัดความร้อนโดยไม่เจตนา อุปกรณ์นี้จะต้องไม่ได้รับการจัดหาผ่านอุปกรณ์สวิตช์ภายนอก เช่น อุปกรณ์ตั้งเวลา หรือเชื่อมต่อเข้ากับวงจรที่เปิดเครื่องและปิดเครื่องโดยไฟฟ้า
- ◆ รู้จักวิธีหยุดเครื่องฉีดน้ำและการไล่แรงดันอย่างรวดเร็ว คุณจะต้องคุ้นชินกับการควบคุมต่างๆ เป็นอย่างดี
- ◆ ห้ามใช้งานเครื่องฉีดน้ำเมื่อคุณรู้สึกเหนื่อยล้า หรือเมื่อดกอยู่ภายใต้อิทธิพลของแอลกอฮอล์หรือยา
- ◆ เมื่อเปิดเครื่องฉีดน้ำแล้ว บังน้ำด้านในจะเริ่มต้นการทำงานและจะทำงานอย่างต่อเนื่องหากคุณไม่ได้กดไกของก้านแรงดัน
- ◆ เมื่อเครื่องฉีดน้ำกำลังทำงาน โปรดคงไว้ซึ่งการจ่ายน้ำที่สม่ำเสมอการไม่มีการไหลเวียนของน้ำจะทำให้แวนซิลของเครื่องฉีดน้ำชำรุดเสียหาย
- ◆ ถือเป็นเรื่องที่ไม่ดีในการเปิดก้านหัวพ่นภายในหนึ่งหรือสองนาทีหลังจากเริ่มต้นการทำงานของเครื่องฉีดน้ำเพื่อหลีกเลี่ยงความเสียหายที่จะเกิดกับแวนซิลซึ่งอยู่ที่ด้านในของเครื่องฉีดน้ำ
- ◆ ฟังระว่างการหดตัวที่เกิดจากเครื่องฉีดน้ำเมื่อเปิดเครื่องฉีดน้ำแล้ว
- ◆ เมื่อทำการติดตั้งเครื่องฉีดน้ำ เครื่องฉีดน้ำจะต้องอยู่ในตำแหน่งที่ราบเรียบ หากต้องการเคลื่อนย้ายเครื่องฉีดน้ำ คุณจะต้องทำการดึงโดยใช้ตามจับ
- ◆ เครื่องฉีดน้ำที่ไม่เหมาะสมสำหรับการเชื่อมต่อเข้ากับท่อน้ำดื่ม
- ◆ เชื่อมต่อเครื่องฉีดน้ำเข้ากับแหล่งจ่ายน้ำ (แหล่งจ่ายน้ำสามารถเป็นภาชนะใส่ น้ำได้)
- ◆ ท่อทางเข้าจะต้องมีความยาวอย่างน้อย 5 ม. ห้ามใช้ท่อหากท่อดังกล่าวชำรุดเสียหาย หากคุณต้องการเชื่อมต่อเครื่องฉีดน้ำนี้เข้ากับท่อน้ำดื่ม คุณจะต้องติดตั้งอุปกรณ์ป้องกันการไหลกลับในท่อน้ำเพื่อป้องกันไม่ให้น้ำสกรปรกไหลกลับไปที่ระบบน้ำดื่ม ทั้งนี้ อุปกรณ์ป้องกันการไหลกลับจะต้องตรงตามมาตรฐาน IEC 60335-2-79 ภาคผนวก AA

เกิดจากการใช้อย่างไม่ถูกต้อง การใช้เป็นเวลานาน เป็นต้น

แม้ว่าจะปฏิบัติตามข้อกำหนดด้านความปลอดภัยที่เกี่ยวข้อง และใช้อุปกรณ์นิรภัย แต่ความเสี่ยงอื่นๆ ที่ยังมีอยู่บางอย่างก็ไม่สามารถหลีกเลี่ยงได้ ความเสี่ยงเหล่านั้นได้แก่

- ◆ การบาดเจ็บที่เกิดจากการสัมผัสกับชิ้นส่วนที่กำลังหมุน/เคลื่อนไหว
- ◆ การบาดเจ็บที่เกิดขึ้นเมื่อทำการเปลี่ยนชิ้นส่วน ใบมีดหรืออุปกรณ์เสริม
- ◆ การบาดเจ็บที่เกิดจากการใช้เครื่องมือเป็นระยะเวลานาน ต้องแน่ใจว่าคุณได้หยุดพักเป็นระยะ
- ◆ การสูญเสียการได้ยิน
- ◆ อันตรายที่มีต่อสุขภาพซึ่งเกิดจากการหายใจเอาฝุ่นที่เกิดขึ้นเมื่อใช้เครื่องมือของคุณเข้าไป (ตัวอย่าง:- การทำงานกับไม้โดยเฉพาะอย่างยิ่งต้นโอ๊ค ต้นบีชและ MDF)

## หลังการใช้งาน

- ◆ เมื่อไม่ได้ใช้งาน คุณจะต้องจัดเก็บอุปกรณ์นี้ไว้ในสถานที่ที่แห้ง ระบายอากาศดี และพ้นจากมือเด็ก
- ◆ อุปกรณ์จะต้องไม่เข้าถึงอุปกรณ์ที่จัดเก็บไว้
- ◆ เมื่อจัดเก็บหรือขนส่งอุปกรณ์นี้ในยานพาหนะ อุปกรณ์นี้จะต้องได้รับการวางไว้ในตู้ หรือถูกจำกัดพื้นที่เพื่อป้องกันการชนเขี่ยชนหลังจากเกิดการเปลี่ยนแปลงความเร็วหรือทิศทาง

## การตรวจสอบและการซ่อมแซม

- ◆ ก่อนใช้งาน ให้ตรวจสอบเครื่องเพื่อหาชิ้นส่วนที่บกพร่องหรือชำรุดเสียหาย ตรวจสอบว่ามี การแตกหักของชิ้นส่วน ความเสียหายของตัวสวิตช์ และสภาพอื่นใดที่อาจส่งผลกระทบต่อการใช้งานหรือไม่
- ◆ ห้ามใช้เครื่องมือหากมีชิ้นส่วนใดๆ ชำรุดเสียหายหรือบกพร่อง
- ◆ ให้ศูนย์ซ่อมที่ได้รับอนุญาตเป็นผู้ซ่อมแซมหรือเปลี่ยนชิ้นส่วนที่ชำรุดหรือบกพร่อง
- ◆ อย่าพยายามถอดหรือเปลี่ยนชิ้นส่วนใดๆ นอกเหนือจากที่ระบุในคู่มือนี้

## คำแนะนำเพื่อความปลอดภัยเพิ่มเติมสำหรับเครื่องฉีดน้ำแรงดันสูง

การใช้งานโดยเจตนาของเครื่องฉีดน้ำจะได้รับการระบุไว้ในคู่มือฉบับนี้ การใช้อุปกรณ์เสริม หรืออุปกรณ์ต่อพ่วง หรือการทำงานอื่นใดกับอุปกรณ์นี้ นอกเหนือจากที่แนะนำไว้ในคู่มือการใช้งานฉบับนี้อาจก่อให้เกิดความเสี่ยงจากการบาดเจ็บส่วนบุคคลและ/หรือความเสียหายกับทรัพย์สินได้

- ◆ สวมรองเท้าแบบเซฟตี้ดีและกางเกงขายาวอยู่เสมอเพื่อปกป้องเท้าและขาของคุณในขณะที่ใช้งานอุปกรณ์นี้

## ความเสี่ยงอื่นๆ ที่ยังมีอยู่

ความเสี่ยงอื่นๆ ที่ไม่ได้ระบุในคำเตือนเพื่อความปลอดภัยนี้ อาจเกิดขึ้นได้เมื่อใช้เครื่องมือ ความเสี่ยงเหล่านี้อาจ

- ◆ ปิดอุปกรณ์ของคุณอยู่เสมอ และปล่อยให้มันนำหยุดทำงานเมื่อ:
  - ◆ คุณทิ้งเครื่องฉีดน้ำไว้โดยไม่มีใครดูแล
  - ◆ กำจัดการอุดตัน
  - ◆ ตรวจสอบ ปรับ ทำความสะอาด หรือทำงานกับเครื่องฉีดน้ำ
  - ◆ เมื่ออุปกรณ์เริ่มสิ้นสั่นหรือผิดปกติ
- ◆ ห้ามวางทางเข้าหรือทางออกของเครื่องฉีดน้ำแรงดันสูงไว้ใกล้กับดวงตาหรือหูเมื่อใช้งานเครื่องฉีดน้ำ ห้ามหันเครื่องฉีดน้ำไปตรงผู้ที่ยืนดูอยู่
- ◆ ห้ามใช้อุปกรณ์นี้เมื่อมีคนคลื่อนอยู่รอบๆ หากบุคคลดังกล่าวไม่ได้สวมชุดป้องกัน
- ◆ ห้ามใช้อุปกรณ์นี้ในขณะที่ฝนตก หรือทั้งอุปกรณ์นี้ไว้ในที่กลางแจ้งเมื่อฝนตก
- ◆ เครื่องฉีดน้ำแรงดันสูงสามารถเป็นอันตรายได้หากถูกนำไปใช้งานอย่างไม่เหมาะสม คุณจะต้องไม่หันเครื่องฉีดน้ำไปหาคน สัตว์ อุปกรณ์ไฟฟ้าที่มีกระแสไฟฟ้าหรือตัวเครื่องฉีดน้ำเอง
- ◆ ห้ามหันเครื่องฉีดน้ำไปหาบุคคลอื่นหรือตัวผู้ใช้งานเอง เพื่อทำความสะอาดเสื้อผ้าหรือรองเท้า
- ◆ ยาง/วาล์วยางของยานพาหนะมีแนวโน้มที่จะเสียหายจากเครื่องฉีดน้ำแรงดันสูง และอาจจะระเบิดได้ ข้อบ่งชี้แรกสำหรับกรณีดังกล่าวก็คือการเปลี่ยนสีของยาง ยาง/วาล์วยางของยานพาหนะที่เสียหายเป็นสิ่งที่ไม่อันตราย คุณจะต้องรักษาระยะห่างของเครื่องฉีดน้ำแรงดันสูงให้อยู่ที่อย่างน้อย 30 ซม. ระหว่างการทำทำความสะอาด!
- ◆ สร้างความเสถียรสำหรับอุปกรณ์ก่อนที่จะทำงานใดๆ กับอุปกรณ์เพื่อป้องกันการเกิดอุบัติเหตุหรือความเสียหาย
- ◆ กระแสไฟฟ้าที่ถูกปล่อยออกมาจากหัวฉีดแรงดันสูงจะส่งผลให้เกิดแรงผลักซึ่งกระทำกับพื้นที่มีอิทธิพล ตรวจสอบให้แน่ใจว่าคุณวางเท้าอย่างมั่นคง รวมถึงจับพื้นที่มีอิทธิพลและก้านหัวพ่นอย่างแน่นหนา
- ◆ คุณจะต้องไม่ใช้งานอุปกรณ์นี้ในสภาพแวดล้อมที่อาจเกิดการระเบิดได้
- ◆ ห้ามใช้อุปกรณ์นี้ในการทำความสะอาดวัตถุต่างๆ ซึ่งมีน้ำหนักเป็นอันตราย (เช่น แร่ใยหิน) โดยเด็ดขาด
- ◆ ห้ามพ่นของเหลวไวไฟ
- ◆ ห้ามดูของเหลวซึ่งประกอบไปด้วยตัวทำลายหรือกรดและตัวทำลายที่ไม่ได้เจือจางโดยเด็ดขาด! ตัวทำลายและกรดดังกล่าวได้แก่แอมโมเนีย นีนาเซอร์ และน้ำมันให้ความร้อน หมอกที่เกิดจากการพ่นมีความไวไฟ สามารถระเบิดได้ และมีความเป็นพิษ ห้ามใช้โซเดียม กรดและตัวทำลายที่ไม่ได้เจือจางเนื่องจากการกัดและตัวทำลายดังกล่าวจะกัดกร่อนวัสดุที่จับกับอุปกรณ์นี้
- ◆ สายยางแรงดันสูง อุปกรณ์ยึดติด และคัปปลิงเป็นสิ่งที่มีความสำคัญสำหรับความปลอดภัยของอุปกรณ์ ใช้

- เฉพาะสายยางแรงดันสูง อุปกรณ์ยึดติด และคัปปลิงที่ได้รับการแนะนำโดยผู้ผลิตเท่านั้น
- ◆ เมื่อตัดการเชื่อมต่อสายยางจ่ายน้ำหรือสายยางแรงดันสูง น้ำร้อนอาจรั่วไหลออกมาจากจุดเชื่อมต่อหลังการใช้งานได้
  - ◆ พึงระวังน้ำหนักของอุปกรณ์นี้เมื่อคุณเลือกสถานที่จัดเก็บรวมถึงระหว่างการใช้งานส่ง (ดูที่ข้อมูลเชิงเทคนิค) เพื่อป้องกันการเกิดอุบัติเหตุหรือการบาดเจ็บ
  - ◆ การใช้งานอุปกรณ์นี้เป็นเวลานานหลายชั่วโมงอาจทำให้เกิดการชาที่มือได้ แต่พบไม่บ่อยครั้งมากนัก
    - ◆ สวมถุงมือ
    - ◆ ดูแลให้มืออุ่นอยู่เสมอ
    - ◆ พักการทำงานเป็นช่วงๆ อย่างสม่ำเสมอ
  - ◆ ระหว่างการใช้งานเครื่องฉีดน้ำแรงดันสูง อาจเกิดการล่องลอยขึ้นได้ การสูดดมละอองลอยเข้าไปสามารถเป็นอันตรายต่อสุขภาพได้
    - ◆ คุณสามารถใช้หัวฉีดที่ได้รับการป้องกันโดยสมบูรณ์ (เช่น น้ำยาทำความสะอาดพื้นผิว) ซึ่งลดการปล่อยละอองลอยที่เป็นน้ำได้เป็นอย่างดี มากสำหรับการทำความสะอาดแรงดันสูงได้โดยจะขึ้นอยู่กับการใช้งาน
    - ◆ การใช้การป้องกันดังกล่าวอาจไม่สามารถใช้ได้กับการใช้งานบางประเภท
    - ◆ หากคุณไม่สามารถใช้หัวฉีดที่ได้รับการป้องกันโดยสมบูรณ์ได้ คุณจะต้องใช้หน้ากากป้องกันระบบทางเดินหายใจประเภท FFP 2 หรือทำเทียมโดยจะขึ้นอยู่กับสภาพแวดล้อมที่ความสะอาดทำความสะอาด
  - ◆ ห้ามวางอุปกรณ์ของคุณลงบนพื้นกรวดในขณะที่ถังเปิดเครื่องอยู่
  - ◆ ตรวจสอบให้แน่ใจอยู่เสมอถึงการวางเท้าที่เหมาะสมของคุณโดยเฉพาะอย่างยิ่งบนทางลาดชัน ห้ามเอื้อมมากเกินไป และรักษาสวมชุดของคุณอยู่ตลอดเวลา
  - ◆ ด้วยเหตุผลเรื่องความปลอดภัย เราจึงแนะนำให้คุณใช้งานอุปกรณ์เฉพาะเมื่อมีอุปกรณ์ตัดไฟรั่ว (สูงสุด 30 mA) เท่านั้น
  - ◆ สายตัดพ่วงไฟฟ้าที่ไม่เหมาะสมสามารถเป็นอันตรายได้ ใช้เฉพาะสายต่อพ่วงไฟฟ้าซึ่งได้รับการอนุญาตและได้รับการติดฉลากเพื่อวัตถุประสงค์นี้รวมถึงมีหน้าตัดของสายที่เพียงพอเมื่อใช้งานกลางแจ้งเท่านั้น: 1 - 10 ม.: 1.5 มม<sup>2</sup> และ 10 - 30 ม.: 2.5 มม<sup>2</sup>
  - ◆ แก้มัดสายต่อพ่วงจากหลอดม้วนสายอยู่เสมอ
  - ◆ ห้ามสูดดมไอน้ำตามเข้าไปในช่อง ห้ามใช้งานหากช่องถูกปิดกั้นโดยเด็ดขาด ดูแลไม่ให้มีเส้นผม สาสี ฝุ่นละออง ฯลฯ ซึ่งสามารถติดการไหลของอากาศอยู่ในช่อง

**คำเตือน!** ใช้ผลิตภัณฑ์ของคุณในลักษณะตามที่ระบุไว้ คู่มือฉบับนี้อยู่เสมอ ผลิตภัณฑ์ของคุณได้รับการออกแบบ

มาเพื่อการใช้งานในลักษณะดังตรง การใช้งานผลิตภัณฑ์ในลักษณะอื่นอาจส่งผลให้เกิดการบาดเจ็บได้ ห้ามใช้งานผลิตภัณฑ์ของคุณเมื่อผลิตภัณฑ์ข้างวดตะแคงหรือคว่ำอยู่

- ◆ ผู้ปฏิบัติงานหรือผู้ใช้งานจะต้องรับผิดชอบในอุบัติเหตุหรืออันตรายที่เกิดขึ้นกับบุคคลอื่นหรือทรัพย์สินของบุคคลดังกล่าว
- ◆ ห้ามใช้ตัวทำลายหรือของเหลวสำหรับการทำความสะอาดในการทำความสะอาดผลิตภัณฑ์ของคุณ
- ◆ ชนนิ้วต สลัก และสกรูทั้งหมดให้แน่นอยู่เสมอเพื่อให้แน่ใจได้ว่า อุปกรณ์จะอยู่ในสภาพการทำงานที่ปลอดภัย

### ความปลอดภัยของบุคคลอื่น

- ◆ เครื่องฉีดน้ำสามารถใช้งานได้โดยบุคคล ซึ่งมีความบกพร่องทางกายภาพ ประสาทสัมผัส หรือจิตใจ หรือขาดประสบการณ์และความรู้หากบุคคลดังกล่าวได้รับการควบคุมดูแลหรือคำแนะนำเกี่ยวกับการใช้งาน เครื่องฉีดน้ำในลักษณะที่ปลอดภัยตลอดจนเข้าใจถึงอันตรายที่เกี่ยวข้อง
- ◆ เด็กจะต้องไม่ใช่เครื่องฉีดน้ำ เด็กจะต้องได้รับการควบคุมดูแลเพื่อให้แน่ใจได้ว่า เด็กจะไม่เล่นกับเครื่องฉีดน้ำ

### ความปลอดภัยทางไฟฟ้า



เครื่องฉีดน้ำของคุณได้รับการหุ้มฉนวนสองชั้น ด้วยเหตุนี้ คุณจึงไม่จำเป็นต้องเดินสายดิน หมั่นตรวจสอบว่า แรงดันไฟฟ้าของอุปกรณ์ตรงตาม แรงดันไฟฟ้าที่ระบุไว้บนแผ่นป้าย

- ◆ หากสายจ่ายไฟชำรุดเสียหาย สายจ่ายไฟดังกล่าวจะต้องได้รับการเปลี่ยนใหม่โดยผู้ผลิตหรือศูนย์บริการของ BLACK+DECKER ที่ได้รับการอนุญาตเพื่อหลีกเลี่ยงอันตราย

### ป้ายบนตัวอุปกรณ์

สัญลักษณ์ต่อไปนี้จะปรากฏบนอุปกรณ์นี้พร้อมรหัสวันที่ต่อไปนี



อ่านคู่มือก่อนที่คุณจะใช้งาน



สวมแว่นตานิรภัยหรือแว่นตากันลมเมื่อคุณใช้งานอุปกรณ์นี้



สวมอุปกรณ์ป้องกันหูที่เหมาะสมเมื่อคุณใช้งานอุปกรณ์นี้



อุปกรณ์นี้ไม่เหมาะสมสำหรับการเชื่อมต่อเข้ากับแหล่งจ่ายน้ำดื่ม



ห้ามหันเครื่องฉีดน้ำแรงดันสูงไปหาคน สัตว์ เครื่องจักร หรือองค์ประกอบไฟฟ้า

### คุณลักษณะเด่น

อุปกรณ์นี้ประกอบไปด้วยคุณลักษณะเด่นทั้งหมดหรือบางอย่างดังต่อไปนี้

1. สายยางแรงดันสูง
2. ก้านพ่น
3. ปุ่มหัวฉีด
4. ต่อดำพ่น
5. ที่จับด้ามพ่น
6. ล็อคอุปกรณ์สั่งงาน
7. อุปกรณ์สั่งงาน
8. หัวฉีดสำหรับการพ่นในวงกว้างและการพ่นแบบแคบ
9. ข้อต่อสายยาง
10. ใส์กรอง
11. ผู้ผลิตโฟม
12. ผู้สมัครที่เป็นผู้ผลิตโฟม
13. ปุ่มต่อสายยาง
14. เครื่องมือทำความสะอาดหัวฉีด
15. หัวฉีดเทอร์โบ
16. ชุดเครื่องฉีดน้ำแรงดันสูง
17. หน้าบัดเปิด/ปิด
18. ต่อดำจับ
19. ต่อดำจับแบบพับเก็บได้ (BEPW2400/BEPW2400TH)
20. ทางน้ำออกแรงดันสูง
21. ม้วนสายยาง
22. ตะขอเก็บสาย
23. ปลายของสายยางแรงดันสูง
24. ปลอดภัยของสายยางแรงดันสูง
25. รางน้ำเข้า
26. ขอบเก็บหัวฉีด
27. ขอบเก็บด้ามจับสำหรับพ่น
28. ปลอดภัยของสายยางรดน้ำ
29. ด้ามจับสำหรับพ่น / เครื่องค้ำหัวฉีด
30. ด้ามจับสำหรับพ่นแบบสลับ (เฉพาะรุ่น BEPW1740TH, BEPW2000TH, BEPW2400TH เท่านั้น)
31. ปุ่มปล่อยด้ามจับ (เฉพาะรุ่น BEPW2400, BEPW2400TH เท่านั้น)

## การประกอบ

**คำเตือน!** เพื่อลดความเสี่ยงจากการบาดเจ็บส่วนบุคคลร้ายแรง คุณจะต้องปิดอุปกรณ์ และตัดการเชื่อมต่ออุปกรณ์จากแหล่งจ่ายไฟก่อนที่จะทำการปรับแต่งหรือทำการถอด/การใส่อุปกรณ์ต่อพ่วงหรืออุปกรณ์เสริม การเริ่มต้นทำงานโดยไม่เจตนาสามารถก่อให้เกิดการบาดเจ็บได้

## การเปิดเครื่อง/ปิดเครื่องโดยอัตโนมัติ:

มอเตอร์ของเครื่องฉีดน้ำแรงดันสูงนี้ไม่ได้ทำงานอย่างต่อเนื่อง แต่จะทำงานเฉพาะเมื่อมีการบีบไกของปืนพ่นเท่านั้น หลังจากปฏิบัติตามขั้นตอนของการเริ่มต้นตามคู่มือฉบับนี้แล้ว ให้คุณเปิดเครื่องฉีดน้ำแรงดันสูง และบีบไกเพื่อเปิดใช้งาน ดูที่หัวข้อ “คำแนะนำสำหรับการใช้งาน” ของคู่มือฉบับนี้สำหรับรายละเอียดเพิ่มเติม

## การไล่อากาศ:

สิ่งที่สำคัญก็คือ คุณจะต้องไล่อากาศก่อนที่จะใช้เครื่องฉีดน้ำแรงดันสูง บีบไกเพื่อไล่อากาศที่ติดค้างอยู่ที่ด้านในของอุปกรณ์และสายยางออกมา บีบไกต่อจนกระทั่งมีกระแสน้ำที่สม่ำเสมอออกมาจากหัวฉีด (กระบวนการนี้จะใช้เวลาไม่เกิน 2 นาที) ดูที่หัวข้อ “คำแนะนำสำหรับการใช้งาน” ของคู่มือฉบับนี้สำหรับกระบวนการดังกล่าว

## การใส่ด้ามจับ (รูป B1)

### BEPWB2000/BEPWB2000TH

กดด้ามจับ (18) ลงบนชุดเครื่องฉีดน้ำแรงดันสูง (16) และขันให้แน่นโดยใช้สกรูที่ให้มา ห้ามขันสกรูจนแน่นเกินไป

## ด้ามจับยึดหดได้ (รูป A, B2)

### BEPWB24000/BEPWB2400TH

เครื่องฉีดน้ำแรงดันสูงนี้มีด้ามจับยึดหดได้และล้อสี่เหลี่ยมแบบในตัวที่แสนสะดวก

- ◆ ในการปลดล็อกด้ามจับยึดหดได้ (19) กดปุ่มปล่อยด้ามจับ (31) และเลื่อนด้ามจับขึ้นด้านบน คุณจะได้ยินเสียงดังกริกเมื่อด้ามจับเข้าที่
- ◆ ในการจัดเก็บด้ามจับยึดหดได้ (19) กดปุ่มปล่อยด้ามจับ (31) และเลื่อนด้ามจับยึดหดได้ลงและเข้าไปในตัวเครื่องของเครื่องฉีดน้ำแรงดันสูง คุณจะได้ยินเสียงดังกริกเมื่อด้ามจับเข้าที่
- ◆ ในการเคลื่อนย้ายเครื่องฉีดน้ำแรงดันสูง (16) เอียงเครื่องเพื่อให้ล้อสี่เหลี่ยมสัมผัสกับพื้น และดึงอุปกรณ์โดยใช้ด้ามจับยึดหดได้

## การใส่ที่เก็บสาย (รูป L)

เลื่อนที่เก็บสาย (22) จากด้านบนไปที่เครื่องค้ำ (22A) บนเครื่องฉีดน้ำแรงดันสูงที่จะเกิดเสียงดัง “กริก”

## การใส่ของเก็บด้ามจับสำหรับพ่นและเครื่องค้ำด้ามจับสำหรับพ่น /หัวฉีด (รูป M)

เลื่อนของเก็บด้ามจับสำหรับพ่น (27) จากด้านบนเครื่องค้ำ (27A) บนเครื่องฉีดน้ำแรงดันสูงที่จะเกิดเสียงดัง “กริก”

## การใส่สายยางแรงดันสูง (รูป C1, C2, C3)

**หมายเหตุ:** ห้ามดึงสายยางแรงดันสูงหรือสายยางจ่ายน้ำเพื่อขยับเครื่องฉีดน้ำแรงดันสูงโดยเด็ดขาดการทำเช่นนี้จะทำให้สายยางและ/หรือ ทางเข้าของบีมน้ำและ/หรือทางออกของบีมน้ำได้รับความเสียหาย

- ◆ ในการเชื่อมต่อสายยางแรงดันสูง (1) เข้ากับ ด้ามพ่น (4/30) คุณจะต้องกดปุ่มต่อสายยาง (13) พร้อมกับกดปลายสายยาง (23) เข้าไปในด้ามพ่น ปล่อยให้ปลายสายยางเมื่อปลายสายยาง ได้รับการกดเข้าไปในตำแหน่งแล้ว
- ◆ ในการเชื่อมต่อสายยางแรงดันสูงเข้ากับชุดเครื่องฉีดน้ำแรงดันสูง (16) คุณจะต้องขันสกรูรูปดอกสายยาง (24) บน ทางนำออกแรงดันสูง (20)

### BEPWB1740/BEPWB1740LP/BEPWB1740TH, BEPWB2000/BEPWB2000TH

- ◆ ในการเชื่อมต่อสายยางแรงดันสูง (1) เข้ากับ ด้ามพ่น (4/30) คุณจะต้องกดปุ่มต่อสายยาง (13) พร้อมกับกดปลายสายยาง (23) เข้าไปในด้ามพ่น ปล่อยให้ปลายสายยางเมื่อปลายสายยาง ได้รับการกดเข้าไปในตำแหน่งแล้ว

**หมายเหตุ:** คลายสายยางแรงดันสูงก่อนที่จะทำการใส่เพื่อป้องกันไม่ให้สายยางหักงอ

**หมายเหตุ:** หลีกเลี่ยงการปีนเกลียวเมื่อใส่สายยางการปีนเกลียวจะทำให้เกิดการรั่วได้

## การใส่ด้ามจับสำหรับพ่น (รูป D)

- ◆ ในการเชื่อมต่อด้ามจับสำหรับพ่น 4/30 เข้ากับก้านพ่น (2) คุณจะต้องใส่ปลายของด้ามจับสำหรับพ่นเข้ากับปลายของก้านพ่น
- ◆ กดเข้าไป และหมุนด้ามจับสำหรับพ่นทวนเข็มนาฬิกาเพื่อล็อกด้ามจับสำหรับพ่นให้เข้าที่

## การใส่สายยางรดน้ำ (รูป E, N2, N3)

**หมายเหตุ:** ก่อนที่จะเชื่อมต่อสายยางรดน้ำเข้ากับชุดเครื่องฉีดน้ำแรงดันสูง

คุณจะต้องปล่อยน้ำให้ไหลในสายยางรดน้ำเป็นเวลาสามสิบวินาทีก่อนเพื่อกำจัดเศษต่างๆ ออกจากด้านในของสายยางรดน้ำ

- ◆ ในการเชื่อมต่อสายยางรดน้ำเข้ากับชุด เครื่องฉีดน้ำแรงดันสูง (16) คุณจะต้องขันสกรูใส่กรอง (10) เข้ากับทางน้ำเข้า (25)

## ภาษาไทย

- ◆ เชื่อมต่อสายยางรดน้ำ (28) เข้ากับอุปกรณ์เชื่อมต่อสายยาง (9) โดยการคลายสกรูของอุปกรณ์เชื่อมต่อสายยางรดน้ำ และใส่สายยางเข้ากับอุปกรณ์เชื่อมต่อ
- ◆ ใส่สายยางรดน้ำ (28) ซึ่งติดตั้งบนข้อต่อสายยางรดน้ำเข้ากับไส้กรอง (10) จนกระทั่ง "เข้าที่"

**หมายเหตุ:** ตัดการเชื่อมต่อสายยางรดน้ำหลังจากใช้งานแล้วอยู่เสมอ

### การใส่หัวฉีด (รูป A, D)

**อันตราย!** ความเสี่ยงจากการฉีดของเหลวห้ามหันกระแสน้ำที่ ปลอยออกมาไปทางคน ผิวหนัง ดวงตาที่ไม่ได้รับการปกป้อง หรือสัตว์เลี้ยง หรือ สัตว์กรทำเช่นนั้นจะทำให้บาดเจ็บสาหัสได้

**คำเตือน!** วัตถุที่ปลิววนอาจก่อให้เกิดความเสี่ยงจากการบาดเจ็บสาหัสได้สิ่งที่ควรทำ อย่าพยายามเปลี่ยนหัวฉีดในขณะที่กำลังใช้เครื่องฉีดน้ำแรงดันสูง ปิดเครื่องฉีดน้ำแรงดันสูงก่อนที่จะเปลี่ยนหัวฉีด

- ◆ ในการเชื่อมต่อหัวฉีดเข้ากับก้านพ่น (2) คุณจะต้องถอดปุ่มหัวฉีด (3) บนก้านพ่น และใส่ หัวฉีดที่เหมาะสม
- ◆ ปลอยปุ่มเพื่อล็อคหัวฉีดให้อยู่กับที่
- ◆ ดึงหัวฉีดแน่นๆ เพื่อให้แน่ใจได้ว่า หัวฉีดจะล็อค อยู่กับที่

**หมายเหตุ:** หัวฉีดพัฒนา 60 องศาพอดีกับก้านจับสำหรับพ่นแบบเส้น ไม่ใช้ด้ามจับสำหรับพ่นมาตรฐาน

### หัวฉีดสำหรับก้านพ่นในวงกว้างและการพ่นแบบแคบ

#### การปรับรูปแบบของการพ่น (รูป F1, F2)

คุณสามารถปรับมุมของการพ่นที่มาจากก้านพ่นได้ โดยการหมุนหัวฉีดการพ่นนี้จะทำให้รูปแบบของการพ่นแตกต่างออกไปจากกระแสน้ำแรงกระแทกสูงที่แคบประมาณ 0 องศาไปเป็นการพ่นในวงกว้างที่ 60 องศา รูปแบบของการพ่นในวงกว้างจะกระจายแรงกระแทกของน้ำที่มีต่อ บริเวณขนาดใหญ่ ทำให้เกิดการทำความสะอาดที่มียอดเยี่ยม รวมถึงลดความเสี่ยงจากการทำให้พื้นผิวเสียหายคุณสามารถทำความสะอาดบริเวณของพื้นผิวขนาดใหญ่ ได้รวดเร็วมากขึ้นเมื่อใช้รูปแบบการพ่นในวงกว้าง กระแสน้ำที่มีลักษณะแคบจะกระจายแรงกระแทกของน้ำ ในบริเวณแคบๆ ส่งผลให้เกิดแรงกระแทกสูง กับพื้นผิวที่ทำความสะอาดใช้กระแสน้ำแบบแคบสำหรับ การทำความสะอาดอย่างล้ำลึกอย่างไรก็ตาม ใช้กระแสน้ำดังกล่าวอย่างระมัดระวังเนื่องจากอาจทำให้พื้นผิวบางอย่างเสียหายได้

การใช้	ปลายนพ่น
หัวฉีดสำหรับการพ่นในวงกว้างและการพ่นแบบแคบ	สำหรับการทำความสะอาดบริเวณที่กว้างอย่างอ่อนโยน

หัวฉีดเทอร์โบ

สำหรับการทำความสะอาดแบบขัดถู

### การใส่ผู้ผลิตโฟม (รูป I)

ในการเชื่อมต่อผู้ผลิตโฟม (11) เข้ากับตามพ่น (4) คุณจะต้องใส่ปลายของผู้ผลิตโฟมเข้าไปที่ด้านในของตามพ่นและ หมุนผู้ผลิตโฟมทวนเข็มนาฬิกาเพื่อล็อคผู้ผลิตโฟมให้อยู่ในตำแหน่ง

**หมายเหตุ:** คุณไม่สามารถใส่ก้านและผู้ผลิตโฟม พร้อมกันได้

**หมายเหตุ:** ผู้ผลิตโฟมจะต้องได้รับการวางตำแหน่งให้อยู่ที่ด้านล่าง ของถังของตามพ่นห้ามวางตำแหน่งของผู้ผลิตโฟม ไว้ที่เหนือถังของปืนพลาสติกเนื่องจากการทำเช่นนี้จะทำให้สูญ หยตกลงบนถัง

### การใช้งาน

**คำเตือน!** คุณจะต้องเชื่อมต่ออุปกรณ์นี้เข้ากับแหล่งจ่ายน้ำเย็นเท่านั้น

**คำเตือน!** มอเตอร์ของเครื่องฉีดน้ำแรงดันสูงนี้จะไม่ทำงาน แต่จะทำงานเฉพาะเมื่อใกล้กับเท่านั้น

- ◆ เชื่อมต่อสายยางของทางออกเข้ากับเครื่องฉีดน้ำ และเชื่อมต่อปืนพ่นเข้ากับสายยางของทางออก
- ◆ เชื่อมต่อหัวฉีดและส่วนขยายของหัวฉีด
- ◆ ตรวจสอบว่าตัวกรองตาข่ายปราศจากกรวดตันหรือไม่
- ◆ เชื่อมต่อสายของแหล่งจ่ายน้ำ
- ◆ ตรวจสอบว่า สายยางหงิกงอหรือไม่
- ◆ เปิดน้ำ และตรวจสอบการรั่วไหล
- ◆ กดไกเพื่อไล่อากาศออกจากปืนน้ำและสายน้ำ ล็อกไก
- ◆ เสียบปลั๊กเครื่องฉีดน้ำ และเปิดสวิตช์
- ◆ ปลดล็อกไก และใช้งานเครื่องฉีดน้ำแรงดันสูง

### การปิดเครื่อง

- ◆ ปิดมอเตอร์ (ดันสวิตช์ไปที่ตำแหน่งปิดเครื่อง)
- ◆ ถอดปลั๊กของอุปกรณ์ออกจากแหล่งจ่ายไฟ
- ◆ ปิดแหล่งจ่ายน้ำ
- ◆ กดไกของปืนเพื่อลดแรงดันของระบบ
- ◆ ตัดการเชื่อมต่อสายยางรดน้ำจากเครื่องฉีดน้ำแรงดันสูง
- ◆ เช็ดพื้นผิวทั้งหมดของอุปกรณ์โดยใช้ผ้าที่สะอาดและหมาดน้ำ
- ◆ ใส่ที่ล็อกนิรภัยของปืน

**ข้อควรระวัง:** ปิดมอเตอร์ของอุปกรณ์ก่อนที่จะปิดแหล่งจ่ายน้ำของอุปกรณ์อยู่เสมอ อาจเกิดความเสียหายร้ายแรงกับมอเตอร์ได้หากอุปกรณ์ทำงานโดยไม่มีน้ำ

**ข้อควรระวัง:** ห้ามตัดการเชื่อมต่อสายยางปลอยน้ำแรงดันสูงออกจากเครื่องฉีดน้ำในขณะที่ระบบยังมีแรงดันโดยเด็ดขาด



ในการลดแรงดันของอุปกรณ์ คุณจะต้องปิดมอเตอร์ ปิด แหล่งจ่ายน้ำ และบีบไก 2-3 ครั้ง

## การวางตำแหน่งมือที่เหมาะสม (รูป G)

**คำเตือน!** ใช้การวางตำแหน่งมือที่เหมาะสมตามที่แสดง ในรูปอยู่เสมอเพื่อลดความเสี่ยงจากการบาดเจ็บส่วนบุคคลร้ายแรง

**คำเตือน!** พึงระวังปฏิบัติการจับปล้นด้วยความระมัดระวัง อยู่เสมอเพื่อลดความเสี่ยงจากการบาดเจ็บส่วนบุคคลร้ายแรง

การวางตำแหน่งมือที่เหมาะสมคือการวางมือข้างหนึ่งไว้บนที่จับ ด้ามพ่น (5) และวางมืออีกข้างไว้บนด้ามพ่น (4)

## คำแนะนำสำหรับการใช้เข็มสำหรับทำความสะอาด (รูป J)

ใช้น้ำยาทำความสะอาดแบบมีเปลว หรือคลิปปหนีบ กระดาษที่กางออก ใส่ลงเข้าไปในรูของหัวฉีด และขยับไปมาจนกระทั่งเศษต่างๆ หลุดออกมา

กำจัดเศษที่เหลือโดยการฉีดน้ำกลับเข้าไปโดยใช้หัวฉีด ในการทำเช่นนั้น คุณจะต้องเชื่อมต่อปลายของสายยางรดน้ำ (ซึ่งมีน้ำอยู่ในนั้น) เข้ากับปลายของหัวฉีดเป็นเวลา 30-60 วินาที

## การทำความสะอาดไส้กรอง (รูป K)

ตรวจสอบไส้กรอง ก่อนการใช้งานในแต่ละครั้ง และทำความสะอาดไส้กรองในกรณีที่ทำเป็น

ถอดองค์ประกอบของไส้กรอง และนำไปวางใต้น้ำสะอาด เพื่อกำจัดเศษ

## การล่อน้ำด้วยตัวเอง (รูป C, E, N1, N2, N3, N4, N5, N6, N7)

- ◆ เชื่อมต่อสายยางของทางน้ำเข้าเข้ากับเครื่องฉีดน้ำแรงดันสูงที่สุด การใส่สายยางรดน้ำในหัวข้อการประกอบ
- ◆ วางปลายด้านที่เป็นอิสระของสายยางพร้อมกับไส้กรองที่ใส่เข้าไปใน
- ◆ แหล่งจ่ายน้ำสำรอง (เช่น ถังน้ำ ฯลฯ)
- ◆ เชื่อมต่อสายยางแรงดันสูงเข้ากับด้ามพ่น โปรดดูที่ การใส่สายยางแรงดันสูงในหัวข้อ การประกอบ
- ◆ เปิดใช้งานเครื่องฉีดน้ำแรงดันสูงโดยการหมุนหน้าปัดเปิด/ปิดไปที่ตำแหน่งเปิด
- ◆ ปิดเครื่องฉีดน้ำแรงดันสูงทันทีที่น้ำพ่น ออกจากท่อน้ำออกของชุดเครื่องฉีดน้ำแรงดันสูง
- ◆ ถอดปลั๊กเครื่องฉีดน้ำแรงดันสูงออกจากแหล่งจ่ายไฟ
- ◆ ประกอบสายยางแรงดันสูงเข้ากับ ทางออกน้ำแรงดันสูง
- ◆ เสียบปลั๊กชุดเครื่องฉีดน้ำแรงดันสูงเข้าไปในแหล่งจ่ายไฟ
- ◆ เปิดใช้งานเครื่องฉีดน้ำแรงดันสูงโดยการหมุนหน้าปัดเปิด/ปิดไปที่ตำแหน่งเปิด

- ◆ เปิดใช้งานอุปกรณ์สั่งงานของด้ามพ่นเพื่อเริ่มต้น การทำความสะอาด

## การบำรุงรักษา

**คำเตือน!** เพื่อลดความเสี่ยงจากการบาดเจ็บส่วนบุคคลร้ายแรง คุณจะต้องปิดอุปกรณ์ และตัดการเชื่อมต่ออุปกรณ์จากแหล่งจ่ายไฟ ก่อนที่จะทำการปรับแต่งหรือทำการถอด/การใส่อุปกรณ์ต่อพ่วงหรืออุปกรณ์เสริม การเริ่มต้นทำงานโดยไม่เจตนาสามารถก่อให้เกิดการบาดเจ็บได้

## การทำความสะอาด

**คำเตือน!** เป่าสิ่งสกปรกและฝุ่นละอองออกจากช่องระบายอากาศโดยใช้ลมที่แห้งและสะอาดอย่างน้อย สัปดาห์ละครั้ง

สวมอุปกรณ์ป้องกันดวงตาที่ได้รับการอนุญาตอยู่เสมอ เมื่อต้องทำงานดังกล่าวเพื่อลดความเสี่ยงจากการบาดเจ็บดวงตา

**คำเตือน!** ห้ามใช้ตัวทำลายหรือสารเคมีรุนแรงในการทำความสะอาดชิ้นส่วนที่ไม่ได้เป็นโลหะของเครื่องมือ โดยเด็ดขาด สารเคมีดังกล่าว อาจทำให้วัสดุพลาสติกที่ใช้ในชิ้นส่วนดังกล่าวอ่อนตัวลงได้ ใช้ผ้าชุบน้ำหมาดๆ กับ สบู่อ่อนๆ เท่านั้นห้ามปล่อยให้ของเหลวใดก็ตามเข้าไปที่ด้านในของเครื่องมือโดยเด็ดขาด ห้ามจุ่มส่วนใดส่วนหนึ่งของเครื่องมือลงไปในของเหลว

## การจัดเก็บ (รูป O, P)

- ◆ จัดเก็บในที่แห้งและมีดัดชื้นเหนืออุณหภูมิเยือกแข็งจัดเก็บในที่ร่ม
- ◆ กำจัดน้ำออกจากสายยางแรงดันสูง ชุดเครื่องฉีดน้ำแรงดันสูง หัวฉีด และก้านพ่นให้หมดอยู่เสมอ
- ◆ คุณสามารถจัดเก็บหัวฉีดไว้ในอุปกรณ์ตามที่แสดงในรูป H ได้

**หมายเหตุ:** คุณสามารถจัดเก็บหัวฉีดเทอร์โบ (BEPW2200) หรือหัวฉีดแบบแคมและกวางไว้ที่ก้านได้

- ◆ คุณสามารถจัดเก็บสายไฟโดยการม้วนและยึดเข้ากับตะขอเก็บสายไฟ (22) ให้แน่นตามที่แสดงในรูป P ได้
- ◆ คุณสามารถจัดเก็บสายฉีดน้ำแรงดันสูง (1) โดยการม้วนและยึดเข้ากับด้ามจับ (18) ให้แน่นโดยใช้ตะขอ (18a) ได้ (รุ่น BEPWB2000/BEPWB2000TH)
- ◆ คุณสามารถจัดเก็บด้ามจับสำหรับพ่นพร้อมก้านและหัวฉีดที่ประกอบแล้วเอาไว้ในช่อง (26) ตรงด้านข้างของเครื่องฉีดน้ำ (รูป P) ได้

## การซ่อมแซม

**คำเตือน!** เพื่อให้แน่ใจถึงความปลอดภัยและความน่าเชื่อถือของผลิตภัณฑ์ การซ่อมแซม การบำรุงรักษา และการปรับแต่งต่างๆ (รวมถึงการตรวจสอบและการเปลี่ยนแปลง) จะต้องได้รับการดำเนินการโดยศูนย์บริการโรงงานของ BLACK+DECKER หรือศูนย์บริการที่ได้รับการอนุญาตของ BLACK+DECKER ใช้ชิ้นส่วนอะไหล่ของแท้อยู่เสมอ

หากสายไฟชำรุดเสียหาย สายไฟดังกล่าวจะต้องได้รับการเปลี่ยนใหม่โดยผู้ผลิต ตัวแทนให้บริการของผู้ผลิต หรือผู้ที่มีความชำนาญในลักษณะเดียวกันเพื่อหลีกเลี่ยงอันตรายที่อาจเกิดขึ้น

### การคุ้มครองสิ่งแวดล้อม



ทั้งแยกต่างหาก ต้องไม่นำผลิตภัณฑ์และแบตเตอรี่ที่มีสัญลักษณ์นี้ไปทิ้งรวมกับของเสียในบ้านตามปกติ

ผลิตภัณฑ์และแบตเตอรี่รีไซเคิลที่สามารถนำมาใช้ใหม่ได้ หรือนำมารีไซเคิลได้เพื่อเป็นการลดความต้องการด้านวัตถุดิบ โพรตริไซเคิลผลิตภัณฑ์ไฟฟ้าและแบตเตอรี่ตามข้อบังคับในท้องถิ่น โปรดดูข้อมูลเพิ่มเติมที่ [www.2helpU.com](http://www.2helpU.com)

### การแก้ไขปัญหา

อาการ	สาเหตุที่เป็นไปได้	วิธีแก้ไข
เมื่อเปิดเครื่องแล้ว เครื่องจัดน้ำไม่เริ่มต้นการทำงาน	1. ไม่ได้สียบปลั๊กอย่างเหมาะสม หรือ มีข้อผิดพลาดในส่วนของตัวรับไฟฟ้า	1. ตรวจสอบปลั๊กตัวรับ
	2. แรงดันไฟฟ้าหลักไม่เพียงพอหรือต่ำกว่าข้อกำหนดขั้นต่ำ	2. ตรวจสอบว่าแรงดันไฟฟ้าหลักเพียงพอหรือไม่
	3. บิมน้ำติด	3. ดูที่คำแนะนำหลังการจัดเก็บ
	4. สวิตช์ปรับความร้อนปลดวงจร	4. ปิดเครื่อง และปล่อยให้ร้อนสองสามนาที 5. เปิดกาน้ำทิ้งไว้
แรงดันผันผวน	1. บิมน้ำดูดอากาศ	1. ตรวจสอบว่าสายยางและจุดเชื่อมต่อทั้งหมดลมเข้าไม่ได้หรือไม่
	2. วาล์วสปริง สึกหรือติด ชิลของบิมน้ำ สึกหรือ	2. ทำความสะอาดและเปลี่ยนใหม่ หรือติดต่อตัวแทนจำหน่าย
การรั่วไหลของน้ำจากบิมน้ำ	ชิลสึกหรือ	ตรวจสอบและเปลี่ยนใหม่ หรือติดต่อตัวแทนจำหน่าย
มอเตอร์หยุดทำงานกะทันหัน	สวิตช์ปรับความร้อนปลดวงจรเนื่องจากร้อนจัด	ตรวจสอบว่า แรงดันไฟฟ้าหลักตรงตามข้อมูลจำเพาะหรือไม่ ปิดเครื่อง และปล่อยให้เครื่องเย็นลงเป็นเวลาสองสามนาที

บิมน้ำขึ้นไม่ถึงแรงดันที่กำหนด	1. ตัวกรองทางน้ำเข้าอุดตัน	1. ทำความสะอาดตัวกรองทางน้ำเข้า
	2. บิมน้ำดูดอากาศจากจุดเชื่อมต่อหรือสายยาง	2. ตรวจสอบว่าจุดเชื่อมต่อการจ่ายน้ำทั้งหมดแน่นหนาหรือไม่
	3. วาล์วดูด/วาล์วจัดส่งอุดตันหรือสึกหรือ	3. ตรวจสอบว่าสายยางบิมน้ำไม่ไดรีว
	4. วาล์วตัดภาวะไหลลดติด	4. เคลียร์หรือเปลี่ยนวาล์ว
	5. กาน้ำหิวฉีดไม่ถูกต้องหรือสึกหรือ	5. คลายและขันสกรูความดันให้แน่นอีกครั้ง 6. ตรวจสอบและ/หรือเปลี่ยนใหม่

### ข้อมูลการให้บริการ

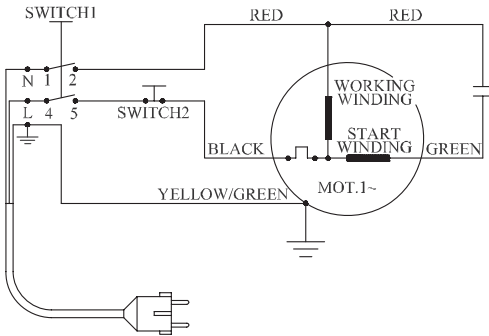
BLACK+DECKER มอบเครือข่ายเต็มรูปแบบของศูนย์บริการที่เป็นของบริษัทและศูนย์บริการที่ได้รับการอนุญาตทั่วเอเชีย ศูนย์บริการทั้งหมดของ BLACK+DECKER มีทีมงานและบุคลากรที่ได้รับการฝึกอบรมมาเป็นอย่างดีในการให้บริการและผลิตภัณฑ์ที่มีประสิทธิภาพและไว้วางใจได้แก่ลูกค้า

ติดต่อศูนย์บริการ BLACK+DECKER ใกล้คุณไม่ว่าคุณต้องการคำแนะนำด้านเทคนิค การซ่อมแซม หรือชิ้นส่วนสำหรับการเปลี่ยนที่เป็นของแท้จากโรงงานก็ตาม

### หมายเหตุ

- ◆ นโยบายของ BLACK+DECKER คือการปรับปรุงผลิตภัณฑ์ของเราอย่างต่อเนื่อง ด้วยเหตุนี้ เราจึงขอสงวนสิทธิ์ในการเปลี่ยนแปลงข้อมูลจำเพาะของผลิตภัณฑ์โดยไม่จำเป็นต้องแจ้งให้ทราบล่วงหน้า
- ◆ อุปกรณ์และอุปกรณ์เสริมมาตรฐานอาจแตกต่างกันออกไปในแต่ละประเทศ
- ◆ ข้อมูลจำเพาะของผลิตภัณฑ์อาจแตกต่างกันออกไปในแต่ละประเทศ
- ◆ ฟิล์มผลิตภัณฑ์ที่ครอบคลุมอาจไม่สามารถหาซื้อได้ในทุกประเทศ
- ◆ ติดต่อตัวแทนจำหน่าย BLACK+DECKER ในท้องถิ่นของคุณเพื่อสอบถามเกี่ยวกับความพร้อมใช้งาน

### แผนผังวงจรไฟฟ้า



Black & Decker (U.S.) Inc.  
701 East Joppa Rd, Towson, Maryland 21286 U.S.A

**BEPWB1740, BEPWB1740LP, BEPWB2000, BEPWB2400,  
BEPWB1740TH, BEPWB2000TH, BEPWB2400TH**  
**Máy phun rửa áp lực**
**Thông số kỹ thuật**

		BEPWB1740 230-240V~ 50HZ	BEPWB1740LP 230-240V~ 50HZ	BEPWB1740 220V~ 60HZ	BEPWB1740TH 220V~ 50HZ
Công suất	W	1500	900	1500	1500
Tốc độ dòng định mức	L/min	4.8	4.8	4.8	4.8
Tốc độ dòng nước tối đa	L/min	5.3	5.3	5.3	5.3
Áp lực định mức	Bar /PSI	80 / 1160	60 / 870	80 / 1160	80 / 1160
Áp suất tối đa	Bar/PSI	120 / 1740	90 / 1300	120 / 1740	120 / 1740
Nhiệt độ đầu vào tối đa	°C	50	50	50	50
áp suất đầu vào tối đa	Bar	10	10	10	10
Lực đẩy của súng đến áp suất tối đa	N	34	34	34	34
Bảo vệ động cơ		IPX5	IPX5	IPX5	IPX5
Nước đầu vào		Nước lạnh trong suốt	Nước lạnh trong suốt	Nước lạnh trong suốt	Nước lạnh trong suốt
Trọng lượng	Kg	10.7	10.7	10.7	10.7

		BEPWB2000 230-240V~ 50HZ	BEPWB2000 220V~ 60HZ	BEPWB2000TH 220V~ 50HZ
Công suất	W	1800	1800	1800
Tốc độ dòng định mức	L/min	5.7	5.7	5.7
Tốc độ dòng nước tối đa	L/min	6.7	6.5	6.7
Áp lực định mức	Bar /PSI	90 / 1305	90 / 1305	90 / 1305
Áp suất tối đa	Bar/PSI	135 / 1950	135 / 1950	135 / 1950
Nhiệt độ đầu vào tối đa	°C	50	50	50
áp suất đầu vào tối đa	Bar	10	10	10
Lực đẩy của súng đến áp suất tối đa	N	34	34	34
Bảo vệ động cơ		IPX5	IPX5	IPX5
Nước đầu vào		Nước lạnh trong suốt	Nước lạnh trong suốt	Nước lạnh trong suốt
Trọng lượng	Kg	14.4	14.4	14.4

		BEPWB2400 230-240V~ 50HZ	BEPWB2400 220V~ 60HZ	BEPWB2400TH 220V~ 50HZ
Công suất	W	2100	2100	2100
Tốc độ dòng định mức	L/min	5.7	5.7	5.7
Tốc độ dòng nước tối đa	L/min	6.7	6.5	6.7
Áp lực định mức	Bar /PSI	110 / 1595	110 / 1595	110 / 1595
Áp suất tối đa	Bar/PSI	165 / 2390	165 / 2390	165 / 2390
Nhiệt độ đầu vào tối đa	°C	50	50	50
áp suất đầu vào tối đa	Bar	10	10	10
Lực đẩy của súng đến áp suất tối đa	N	34	34	34
Bảo vệ động cơ		IPX5	IPX5	IPX5
Nước đầu vào		Nước lạnh trong suốt	Nước lạnh trong suốt	Nước lạnh trong suốt
Trọng lượng	Kg	16.6	16.6	16.6

## Mục đích sử dụng

Máy phun rửa áp lực BLACK+DECKER BEPWB1740, BEPWB1740LP, BEPWB1740TH, BEPWB2000, BEPWB2000TH, BEPWB2400 và BEPWB2400TH

Đã được thiết kế để vệ sinh xe hơi, xe đạp và các thiết bị ngoài trời khác hoặc sân vườn, nhà kính hoặc bất kỳ bề mặt bên ngoài nào khác.

## Hướng dẫn an toàn

**Cảnh báo!** Khi sử dụng các thiết bị sử dụng điện kết nối với nguồn/thiết bị không dây, phải luôn tuân thủ các biện pháp phòng ngừa an toàn cơ bản, bao gồm những biện pháp sau đây để giảm nguy cơ hỏa hoạn, điện giật, thương tích cá nhân và thiệt hại vật chất.



Không bao giờ hướng tia nước vào người, động vật, máy móc hoặc các bộ phận điện.

**Cảnh báo!** Tia phản lực cao áp có thể gây nguy hiểm nếu bị sử dụng sai.



**Cảnh báo!** Theo các quy định hiện hành, không bao giờ được sử dụng thiết bị trong mạng lưới nước uống mà không có bộ chia hệ thống. Sử dụng bộ chia hệ thống theo IEC 61770 Loại BA.

Nước chảy qua thiết bị chia hệ thống là nước không uống được.

- Tất cả các ống nối phải có khớp nối được bịt đúng cách.
- Đảm bảo ống cấp nước có đường kính ít nhất là 12,7 mm và được gia cố.
- Không bao giờ được sử dụng nguồn cấp nước uống mà không có van chảy ngược. Nước đã chảy qua van chảy ngược là nước không uống được.
- Đọc kỹ toàn bộ hướng dẫn này trước khi sử dụng thiết bị.
- Mục đích sử dụng được mô tả trong hướng dẫn này. Việc sử dụng bất cứ phụ kiện, thiết bị đi kèm hoặc thực hiện bất kỳ thao tác nào bằng thiết bị này ngoài những nội dung được khuyến nghị trong hướng dẫn này đều có thể dẫn đến nguy cơ gây ra thương tích cá nhân.
- Giữ lại hướng dẫn này để tham khảo về sau.
- Kết nối cấp điện phải được thực hiện bởi thợ điện có trình độ và tuân theo tiêu chuẩn IEC 60364-1. Nguồn cấp điện đến máy này phải có thiết bị dòng điện dư để ngắt nguồn cấp nếu dòng điện rò rỉ xuống đất vượt quá 30 mA trong 30 phút hoặc thiết bị có mạch nối đất.
- Loại máy này không dành cho những người bị suy giảm khả năng thể chất, giác quan hoặc thần kinh ( kể cả trẻ em ), hoặc người thiếu kinh nghiệm và kiến thức.
- Hãy giám sát để bảo đảm trẻ em không chơi đùa với thiết bị.
- Nếu dây nguồn bị hỏng, nó phải được thay thế bởi nhà sản xuất, nhân viên bảo hành hoặc nhân sự có trình độ tương tự để tránh nguy hiểm.

- Tuân thủ các quy định của công ty cấp nước.

- **CẢNH BÁO:** Thiết bị này đã được thiết kế để sử dụng với chất tẩy rửa được nhà sản xuất cung cấp hoặc đề xuất. Việc sử dụng chất tẩy rửa hoặc hóa chất khác có thể ảnh hưởng không tốt đến tính an toàn của thiết bị.
- **CẢNH BÁO:** Trong quá trình sử dụng máy phun rửa cao áp, có thể hình thành sol khí. Hít phải sol khí có thể nguy hiểm cho sức khỏe.
- **CẢNH BÁO:** Tia nước cao áp có thể gây nguy hiểm nếu bị sử dụng sai. Không được hướng tia nước vào người, thiết bị điện đang hoạt động hoặc chính thiết bị đó.
- **CẢNH BÁO:** Không sử dụng thiết bị trong phạm vi có người trừ khi họ mặc quần áo bảo hộ.
- **CẢNH BÁO:** Không hướng tia nước vào chính bạn hoặc những người khác để xịt quần áo hoặc giày dép.
- **CẢNH BÁO:** Nguy cơ cháy nổ - Không phun chất lỏng dễ cháy.
- **CẢNH BÁO:** Không để trẻ em hoặc nhân sự chưa qua đào tạo sử dụng máy phun rửa cao áp.
- **CẢNH BÁO:** Ống cao áp, phụ kiện và khớp nối là vô cùng quan trọng đối với sự an toàn của máy. Chỉ sử dụng ống mềm, phụ kiện và khớp nối do nhà sản xuất khuyến cáo.
- **CẢNH BÁO:** Để đảm bảo an toàn cho thiết bị, chỉ sử dụng các phụ tùng thay thế ban đầu từ nhà sản xuất hoặc được nhà sản xuất phê duyệt.
- **CẢNH BÁO:** Nước đã chảy qua bộ chặn chảy ngược là không thể uống được.
- **CẢNH BÁO:** Không sử dụng thiết bị nếu một dây nguồn hoặc các bộ phận quan trọng của thiết bị bị hư hỏng, ví dụ như thiết bị an toàn, ống cao áp, súng kích hoạt.
- **CẢNH BÁO:** Dây nối dài không đủ có thể gây nguy hiểm. Nếu sử dụng dây nối dài, nó phải phù hợp để sử dụng ngoài trời và kết nối phải được giữ khô ráo và tránh xa mặt đất. Hãy bảo đảm điều này bằng cách sử dụng một cuộn dây để giữ ổ cắm ít cách mặt đất ít nhất 60 mm.
- **CẢNH BÁO:** Không sử dụng thiết bị chạy bằng động cơ đốt trong trong nhà, trừ khi có hệ thống thông gió phù hợp được thẩm định bởi các cơ quan lao động quốc gia.
- **CẢNH BÁO:** Đảm bảo không có khí thải trong khu vực gần nơi khí vào.
- **CẢNH BÁO:** Luôn tắt công tắc ngắt kết nối nguồn điện khi không có người giám thị thiết bị.
- **CẢNH BÁO:** Tùy thuộc vào ứng dụng, có thể sử dụng vòi phun có nắp chắn để vệ sinh với áp suất lớn, điều này sẽ làm giảm đáng kể sự phát thải sol khí ngậm nước. Tuy nhiên, không phải tất cả ứng dụng đều cho phép sử dụng thiết bị này.  
Nếu không thể dùng vòi phun có nắp chắn để bảo vệ

chống lại sol khí, có thể cần dùng thiết bị hô hấp loại FFP 2 hoặc tương đương, tùy thuộc vào môi trường cần vệ sinh.

## Sử dụng thiết bị của bạn

Luôn cẩn thận khi sử dụng thiết bị.

- Không được hướng dòng nước tới thiết bị có chứa các bộ phận điện, chẳng hạn như trong lò nướng.
- Không được sử dụng thiết bị nếu nó đã bị rơi, nếu có dấu hiệu hư hỏng rõ ràng hoặc nếu bị rò rỉ.
- Luôn sử dụng kính bảo hộ.
- Thiết bị này không dành cho những người (kể cả trẻ em) bị suy giảm khả năng thể chất, giác quan hoặc tinh thần, hoặc thiếu kinh nghiệm và kiến thức sử dụng. Không bao giờ vận hành máy khi có người, đặc biệt là trẻ em hoặc vật nuôi, ở khu vực lân cận.
- Không để trẻ em hoặc động vật tới gần khu vực làm việc hoặc chạm vào thiết bị hoặc dây nguồn.
- Cần giám sát chặt chẽ khi sử dụng thiết bị gần trẻ em.
- Người trẻ tuổi hoặc người ốm yếu không được sử dụng thiết bị mà không có sự giám sát.
- Thiết bị này không phải đồ chơi.
- Chỉ sử dụng thiết bị trong điều kiện ánh sáng ban ngày hoặc ánh sáng nhân tạo tốt.
- Chỉ sử dụng thiết bị ở nơi khô ráo. Không để thiết bị bị ướt.
- Tránh sử dụng thiết bị trong điều kiện thời tiết xấu, đặc biệt là khi có nguy cơ sấm sét.
- Không hướng thiết bị vào nước.
- Không mở thân máy. Có các bộ phận không được bảo trì ở bên trong.
- Không vận hành thiết bị trong môi trường dễ cháy nổ, như môi trường có chất lỏng, khí hoặc bụi dễ cháy.
- Chỉ được sử dụng thiết bị với bộ cấp nguồn được cung cấp cùng thiết bị.
- Máy được thiết kế để sử dụng ở môi trường có nhiệt độ trên 0 độ.
- Phương pháp vận hành cần tuân thủ nếu xảy ra tai nạn (ví dụ như tiếp xúc với chất tẩy rửa: rửa sạch bằng nhiều nước sạch) hoặc biện pháp ngăn ngừa các tình huống không an toàn.
- Thiết bị này được thiết kế để sử dụng với chất tẩy rửa do nhà sản xuất cung cấp hoặc khuyến nghị. Hãy thận trọng tuân thủ tất cả hướng dẫn và cảnh báo về hóa chất trước khi sử dụng. Chỉ sử dụng các chất tẩy rửa máy phun rửa áp lực được phê duyệt. Không sử dụng chất tẩy trắng, clorua hoặc bất kỳ chất tẩy rửa nào có chứa axit. Luôn tuân theo các khuyến nghị trên nhãn của nhà sản xuất để sử dụng chất tẩy rửa đúng cách.

- Sử dụng kính bảo hộ. Kính mắt hàng ngày KHÔNG phải là kính bảo hộ. Đồng thời sử dụng mặt nạ hoặc mặt nạ chống bụi nếu hoạt động trong môi trường có nhiều bụi. **LUÔN ĐEO THIẾT BỊ ĐƯỢC CHỨNG NHẬN AN TOÀN.**
- Không hướng tia nước vào chính mình hoặc người khác để làm sạch quần áo hoặc giày dép.
- Nước đã chảy qua bộ chặn chảy ngược là không thể uống được.
- Máy sẽ được ngắt nguồn điện bằng cách rút phích cắm khỏi ổ cắm trong khi
- làm sạch hoặc bảo trì và khi chuyển thiết bị sang chế độ khác.
- Nếu sử dụng dây nối dài, phải bảo đảm phích cắm và ổ cắm kín nước.
- Để tránh nguy hiểm do vô tình đặt lại cầu chì nhiệt, không cấp nguồn cho thiết bị này thông qua bộ chuyển mạch bên ngoài, như bộ hẹn giờ hoặc kết nối nó đến một mạch được bật và tắt liên tục bằng tiện ích.
- Biết cách dừng máy và xả áp suất nhanh. Hãy làm quen quen kỹ với các nút điều khiển.
- Không vận hành máy khi mệt mỏi hoặc khi đã dùng rượu hoặc ma túy.
- Khi máy được bật, máy bơm bên trong bắt đầu và liên tục chạy ngay cả khi chưa đẩy cần kích hoạt áp suất.
- Khi máy đang chạy, hãy duy trì nguồn cấp nước liên tục.
- Nếu không có nước lưu thông, các vòng đệm của máy sẽ bị hỏng.
- Cần phải bật cây phun trong vòng một hoặc hai phút sau khi khởi động máy, theo thứ tự, để tránh làm hỏng các vòng đệm trong máy.
- Hãy chú ý độ giật do tia nước khi bật máy lên.
- Khi lắp đặt máy, máy phải ở vị trí bằng phẳng. Để chuyển máy, kéo nó bằng tay cầm.
- Thiết bị này không phù hợp để nối với nguồn nước uống. Kết nối máy với nguồn nước. (Đó có thể là một thùng chứa nước).
- Đường ống đầu vào phải dài ít nhất 5 M. Không sử dụng đường ống nếu đường ống bị hỏng. Nếu bạn muốn kết nối thiết bị này với nguồn nước uống, bạn phải lắp một bộ chặn chảy ngược trong ống nước để ngăn nước bắn chảy ngược lại hệ thống nước uống. Các bộ chặn chảy ngược phải tuân theo IEC 60335-2-79 PHỤ LỤC AA.

## Các nguy cơ khác.

Các nguy cơ khác có thể phát sinh khi sử dụng công cụ này có thể không được đưa vào trong cảnh báo an toàn kèm theo. Các nguy cơ này có thể phát sinh do sử dụng sai mục đích, sử dụng trong khoảng thời gian dài, v.v. Kể cả việc áp dụng các quy tắc an toàn liên quan và sử dụng các thiết bị an toàn cũng không thể tránh được một

số nguy cơ khác. Những nguy cơ này bao gồm:

- Thương tích do chạm vào các bộ phận quay/chuyển động.
- Thương tích gây ra khi thay đổi các bộ phận, lưỡi dao hoặc phụ kiện.
- Thương tích do sử dụng thiết bị trong khoảng thời gian dài. Khi sử dụng bất cứ thiết bị nào trong khoảng thời gian dài, bạn phải đảm bảo cho thiết bị nghỉ thường xuyên.
- Suy giảm thính lực.
- Các nguy cơ về sức khỏe do hít phải bụi phát sinh khi sử dụng công cụ của bạn ( ví dụ: - Làm việc với gỗ, đặc biệt là gỗ sồi, gỗ dẻ gai và mdf. )

## Sau khi sử dụng

- Khi không sử dụng, phải bảo quản thiết bị ở nơi khô ráo, thoáng gió, tránh xa tầm tay trẻ em.
- Không để trẻ em tiếp cận với các thiết bị được bảo quản.
- Khi thiết bị được bảo quản hoặc vận chuyển trong một chiếc xe, nó phải được ràng néo chặt để tránh chệch hướng do thay đổi đột ngột về tốc độ hoặc hướng.

## Kiểm tra và sửa chữa

- Trước khi sử dụng, hãy kiểm tra thiết bị xem có bộ phận nào bị hỏng hoặc bị lỗi không. Kiểm tra xem có bộ phận nào bị gãy, công tắc nào bị hỏng không và bất cứ tình trạng nào khác có thể ảnh hưởng đến việc vận hành thiết bị.
- Không sử dụng thiết bị nếu có bất cứ bộ phận nào bị hỏng hoặc bị lỗi.
- Mang các bộ phận bị hỏng hoặc lỗi đến đại lý được ủy quyền để sửa chữa hoặc thay thế.
- Tuyệt đối không tìm cách tháo hoặc thay thế bất cứ bộ phận nào ngoài những bộ phận được chỉ định trong hướng dẫn này.

## Hướng dẫn an toàn bổ sung cho máy phun rửa áp lực

Mục đích sử dụng được mô tả trong Hướng dẫn này. Việc sử dụng bất kỳ phụ kiện nào hoặc vận hành bất kỳ hoạt động với thiết bị này khác với Những đề xuất trong hướng dẫn sử dụng này đều có thể đem đến rủi ro thương tích cá nhân và/hoặc thiệt hại tài sản.

- Để bảo vệ bàn chân và đôi chân của bạn trong khi vận hành thiết bị, hãy luôn đi giày lao động và quần dài.
- Luôn tắt sản phẩm của bạn, dừng máy bơm khi:
  - Bạn rời khỏi sản phẩm của mình.
  - Tiến hành thông tắc nghẽn.
  - Kiểm tra, điều chỉnh, vệ sinh hoặc làm việc trên sản phẩm của bạn.
  - Nếu thiết bị bắt đầu rung bất thường.

- Không để đầu vào hoặc đầu ra của máy phun rửa áp lực gần mắt hoặc tai khi vận hành. Không bao giờ hướng vòi vào người khác.
- Không sử dụng thiết bị khi có những người khác xung quanh, trừ khi họ cũng đang mặc quần áo bảo hộ.
- Không sử dụng dưới trời mưa hoặc để thiết bị ngoài trời khi đang mưa.
- Vòi cao áp có thể nguy hiểm nếu sử dụng không đúng cách. Không được hướng tia nước vào con người, động vật, thiết bị điện đang hoạt động hoặc chính thiết bị.
- Không được hướng tia nước cao áp vào những người khác hoặc chính bản thân người dùng để làm sạch quần áo hoặc giày dép
- Lớp xe / van lớp để bị hư hỏng do tia cao áp và có thể bị nổ. Dấu hiệu đầu tiên cho thấy điều này là lớp bị đổi màu. Lớp xe / van lớp bị hỏng rất nguy hiểm. Hãy giữ khoảng cách tối thiểu là 30 cm với tia nước trong quá trình làm sạch!
- Bảo đảm sự ổn định cho thiết bị trước khi thực hiện bất kỳ công việc nào trên hoặc với thiết bị để ngăn ngừa tai nạn hoặc hư hỏng.
- Tia nước được phun ra từ vòi phun cao áp dẫn đến lực đẩy tác động lên súng phun tay. Hãy chắc chắn rằng bạn có chỗ đứng vững vàng và đang cầm súng phun tay và vận hành chắc chắn.
- Không được vận hành thiết bị trong môi trường dễ nổ.
- Không bao giờ sử dụng thiết bị để làm sạch đồ vật có chứa chất nguy hiểm (ví dụ như amiăng).
- Không phun chất lỏng dễ cháy.
- Không bao giờ hút chất lỏng có chứa dung môi hoặc axit không pha loãng và dung môi! Chúng gồm xăng, chất pha loãng sơn và dầu nóng. Hơi phun rất dễ cháy, nổ và có chứa độc. Không sử dụng axeton, axít và dung môi không pha loãng, vì chúng ăn mòn các vật liệu được sử dụng để chế tạo thiết bị.
- Ống cao áp, phụ kiện và khớp nối rất quan trọng đối với sự an toàn của thiết bị. Chỉ sử dụng ống cao áp, phụ kiện và khớp nối được nhà sản xuất khuyến cáo.
- Khi ngắt nguồn cấp hoặc ống cao áp, nước nóng có thể bị rò rỉ từ các kết nối sau khi vận hành.
- Hãy lưu ý trọng lượng của thiết bị khi chọn vị trí bảo quản và trong quá trình vận chuyển (xem dữ liệu kỹ thuật) để ngăn ngừa tai nạn hoặc thương tích.
- Sử dụng thiết bị liên tục trong nhiều giờ có thể dẫn đến tê bì tay trong một số ít trường hợp.
  - Đeo găng tay.
  - Giữ ấm bàn tay.
  - Nghỉ giải lao đều đặn.
- Trong quá trình sử dụng máy phun rửa cao áp, có thể có sol khí. Hít phải sol khí có thể gây hại cho sức khỏe.

- Tùy thuộc vào ứng dụng, có thể sử dụng vòi phun có nắp chắn (vd: máy phun rửa bề mặt) để làm giảm đáng kể sự phát thải sol khí ngậm nước khi vệ sinh áp lực cao.
- Việc sử dụng các nắp chắn như vậy không phù hợp với mọi ứng dụng.
- Nếu việc sử dụng vòi phun có nắp chắn hoàn toàn là không thể, nên sử dụng mặt nạ phòng độc loại FFP 2 hoặc tương tự, tùy thuộc vào môi trường cần vệ sinh.
- Đừng đặt thiết bị của bạn xuống bề mặt rải sỏi trong khi nó được bật.
- Luôn đứng vững, đặc biệt là trên các sườn dốc. Đừng tiếp cận quá gần và luôn giữ thăng bằng.
- Vì lý do an toàn, chúng tôi khuyên bạn chỉ nên vận hành thiết bị thông qua thiết bị hiện tại (tối đa 30 MA).
- Cấp điện nối dài không phù hợp có thể nguy hiểm. Chỉ sử dụng cáp điện mở rộng đã được phê duyệt và gắn nhãn cho mục đích này và bảo đảm iết điện cấp ngoài trời: 1 - 10 m: 1,5 mm<sup>2</sup>; 10 - 30 m: 2,5 mm<sup>2</sup>
- Luôn thả hoàn toàn dây cáp nối dài từ trống cáp.
- Không đặt bất kỳ vật nào vào các khe hở. Không bao giờ sử dụng nếu các khe hở bị chặn – đảm bảo không có lông, xơ, bụi và bất cứ thứ gì có thể làm hạn chế luồng khí.

**Cảnh báo!** Luôn sử dụng sản phẩm của bạn theo như được nêu trong sách hướng dẫn này.

Sản phẩm của bạn được thiết kế để sử dụng ở chế độ thẳng đứng và nếu bị sử dụng theo bất kỳ cách nào khác, có thể dẫn đến thương tích.

Không bao giờ chạm sản phẩm trong khi nó nằm nghiêng hoặc lộn ngược.

- Người vận hành hoặc người dùng tự chịu trách nhiệm về tai nạn hoặc nguy hiểm xảy ra với con người hoặc tài sản của họ.
- Không sử dụng dung môi hoặc chất lỏng tẩy rửa để vệ sinh sản phẩm của bạn.
- Vận chặt tất cả bu lông và ốc vít để đảm bảo thiết bị ở điều kiện làm việc an toàn.

## An toàn của người khác

- Người suy giảm thể chất, cảm giác hoặc năng lực trí óc hoặc thiếu kinh nghiệm và kiến thức có thể sử dụng thiết bị này nếu họ được giám sát hoặc hướng dẫn về việc sử dụng máy theo cách an toàn, cũng như hiểu rõ các mối nguy liên quan.
- Trẻ em không được sử dụng thiết bị. Phải giám sát để bảo đảm trẻ em không chơi với máy.



## An toàn điện



Thiết bị của bạn được cách điện kép; do đó không cần dây nối đất. Luôn kiểm tra để bảo đảm điện áp nguồn tương ứng với điện áp trên tấm định mức.

- Nếu dây cấp bị hỏng, nó phải được thay thế bởi nhà sản xuất hoặc Trung tâm Dịch vụ BLACK + DECKER được ủy quyền để tránh nguy hiểm.

## Ký hiệu trên thiết bị

Trên thiết bị này có các ký hiệu sau đây cùng với mã ngày:



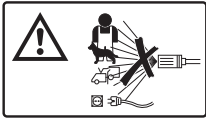
Đọc hướng dẫn sử dụng trước khi vận hành.



Đeo kính bảo hộ khi vận hành thiết bị này.  
Đeo thiết bị bảo vệ tai phù hợp khi vận hành thiết bị này.



Máy không phù hợp để kết nối với nguồn nước có thể uống được.



Không bao giờ hướng tia nước vào con người, động vật, máy móc hoặc các bộ phận điện.

## Đặc điểm

Thiết bị này bao gồm một vòi hoặc tất cả đặc điểm sau đây.

1. Ống cao áp
2. Cản phun
3. Núm đầu vòi
4. Tay cầm vòi phun
5. Tay nắm vòi phun
6. Khóa cò
7. Cò
8. Quạt phun cho vòi phun bút chì
9. Đầu nối ống vòi
10. Bộ lọc
11. Máy tạo bọt
12. Thiết bị rắc tạo bọt
13. Núm kết nối ống vòi
14. Công cụ vệ sinh vòi phun
15. Vòi phun turbo
16. Máy rửa áp lực
17. Núm Bật/Tắt
18. Tay cầm
19. Tay cầm có thể rút vào (BEPWB2400/BEPWB2400TH)
20. Lỗ ra nước áp lực cao
21. Guồng ống vòi
22. Móc giữ dây

23. Đầu vòi áp lực
24. Cổ vòi áp lực
25. Lỗ nạp nước
26. Bao đựng vòi phun
27. Bao đựng tay cầm vòi phun
28. Cổ vòi vườn
29. Tay cầm vòi phun / Giá đỡ ống vòi
30. Tay cầm vòi phun ngắn ( chỉ BEPWB1740TH, BEPWB2000TH, BEPWB2400TH )
31. Núm nhà tay cầm (chỉ BEPWB2400, BEPWB2400TH)

## Bộ lắp ráp

**Cảnh báo!** Để giảm nguy cơ bị thương tích cá nhân nghiêm trọng, hãy tắt và ngắt kết nối thiết bị khỏi nguồn điện trước khi thực hiện các thao tác điều chỉnh hoặc tháo/lắp các linh kiện hoặc phụ kiện. Vô tình khởi động có thể gây thương tích.

## BẬT / TẮT tự động:

Động cơ máy phun rửa áp lực này không chạy liên tục. Nó chỉ hoạt động khi súng phun được bóp cò. Sau khi làm theo các quy trình khởi động trong hướng dẫn này, BẬT máy phun rửa áp lực và bóp cò để kích hoạt. Xem phần "Hướng dẫn vận hành" trong hướng dẫn này để biết thêm chi tiết.

## Xả súng:

Phải xả súng trước khi sử dụng súng phun. Bóp cò súng để không khí bên trong thiết bị và ống vòi thoát ra ngoài. Tiếp tục bóp cò súng cho đến khi có dòng nước ổn định từ vòi phun. ( Quá trình này có thể kéo dài đến 2 phút ). Xem phần "Hướng dẫn vận hành" để biết quy trình này.

## Gắn Tay cầm (Hình B1)

### BEPWB2000/BEPWB2000TH

Án tay cầm ( 18 ) vào máy rửa áp lực ( 16 ) và cố định bằng đinh vít đi kèm. Không vận quá chặt.

## Tay cầm có thể thu vào (Hình A, B2)

### BEPWB2400/BEPWB2400TH

Máy xịt rửa tăng áp này có tay cầm tích hợp tiện lợi, có thể thu vào trong thân máy và bánh xe vận chuyển.

- Để mở khóa tay cầm ( 19 ), nhấn nút nhà tay cầm ( 31 ) và trượt tay cầm lên trên. Bạn sẽ nghe thấy tiếng cách khi tay cầm khớp vào vị trí.
- Để thu tay cầm ( 19 ) về, nhấn nút nhà tay cầm ( 31 ) và trượt tay cầm xuống dưới vào bên trong thân máy xịt rửa tăng áp. Bạn sẽ nghe thấy tiếng cách khi tay cầm khớp vào vị trí.
- Để di chuyển máy xịt rửa tăng áp ( 16 ), nghiêng thiết bị sao cho các bánh xe vận chuyển chạm đất và kéo thiết bị bằng tay cầm có thể thu vào.

**Gắn bộ giữ dây (Hình L)**

Trượt bộ giữ dây ( 22 ) từ trên xuống giá đỡ ( 22A ) trên thiết bị cho tới khi nó phát ra tiếng "cách".

**Gắn bao da tay cầm vòi phun và giá đỡ vòi phun / giá đỡ ống vòi (Hình M)**

Trượt bao da tay cầm vòi phun ( 27 ) từ trên xuống giá đỡ ( 27A ) trên thiết bị cho đến khi nó phát ra tiếng "cách".

**Gắn ống cao áp (Hình C1, C2, C3)**

Lưu ý: Không bao giờ được phép kéo ống cao áp hoặc ống cấp nước để di chuyển máy rửa áp lực. Hành động này có thể làm hỏng ống và/hoặc đầu vào và/hoặc đầu ra của máy bơm.

- Để kết nối ống cao áp ( 1 ) với tay cầm vòi phun 4/30 , ấn nút kết nối ống vòi ( 13 ) trong khi lắp đầu vòi ( 23 ) vào tay cầm vòi phun. Nhả nút kết nối ống vòi khi đầu ống đã được lắp vào vị trí.
- Để kết nối ống cao áp với thân máy rửa áp lực ( 16 ), xoay cổ ống vòi ( 24 ) vào đầu ra nước áp lực cao ( 20 ).

**BEPWB1740/BEPWB1740LP/BEPWB1740TH, BEPWB2000/BEPWB2000TH**

Để kết nối ống cao áp ( 1 ) với tay cầm vòi phun 4/30 , ấn nút kết nối ống vòi ( 13 ) trong khi lắp đầu vòi ( 23 ) vào tay cầm vòi phun. Nhả nút kết nối ống vòi khi đầu ống đã được lắp vào vị trí.

**Lưu ý:** Duỗi thẳng ống cao áp trước khi lắp để tránh ống bị gập khúc.

**Lưu ý:** Tránh bị gập chéo khi lắp ống. Gập chéo sẽ gây rò rỉ.

**Gắn tay cầm vòi phun (Hình D)**

- Để kết nối tay cầm vòi phun ( 4/30 ) với đầu phun ( 2 ), lắp phần cuối của tay cầm vòi phun vào đầu của đầu phun.
- Nhấn vào và xoay tay cầm vòi phun ngược chiều kim đồng hồ để khóa nó vào vị trí.

**Gắn ống tưới vườn (Hình D, K2)**

**Lưu ý:** Trước khi kết nối ống tưới vườn với máy rửa áp lực, xả nước trong vòi tưới vườn trong ba mươi giây để xóa sạch bất kỳ mảnh vụn nào ở bên trong vòi tưới vườn.

- Để kết nối với vòi tưới vườn với thân Máy phun xịt rửa áp lực cao ( 16 ), xoay bộ lọc ( 10 ) vào lỗ nạp nước ( 25 ).
- Kết nối ống vườn (28) với đầu nối ống (9) bằng cách nối lỏng vít của đầu nối ống vườn và gắn ống vào đầu nối.
- Gắn vòi tưới vườn ( 28 ) trên đầu nối ống vòi vào bộ lọc ( 10 ) cho đến khi có tiếng "lách cách".

**Lưu ý:** Luôn luôn ngắt kết nối vòi tưới vườn sau khi sử dụng.

**Gắn đầu vòi (Hình A, D)**

**Nguy hiểm!** Nguy cơ bị phun chất lỏng. Không hướng trực tiếp dòng chảy về phía người, vị trí da không được che chắn, mắt hoặc bất kỳ vật nuôi hoặc động vật nào khác. Điều đó có khả năng gây ra thương tích nghiêm trọng.

**Cảnh báo!** Các vật thể bay có thể gây nguy cơ bị thương tích nghiêm trọng. KHÔNG cố gắng thay đổi đầu vòi trong khi máy rửa áp lực đang hoạt động. TẮT máy rửa áp lực trước khi thay đổi đầu vòi.

- Để kết nối đầu vòi với cần phun ( 2 ), nhấn nút đầu vòi ( 3 ) trên cần phun và lắp đầu vòi thích hợp.
- Nhả nút để khóa đầu vòi lại.
- Kéo mạnh đầu vòi để đảm bảo đầu vòi được cố định chắc chắn vào vị trí.

**Lưu ý:** Vòi quạt 60 ° chỉ vừa với tay cầm vòi phun ngắn, không vừa với tay cầm phun tiêu chuẩn.

**Đầu vòi phun kiểu tán quạt đến phun kiểu bút chì**

**Mẫu tán quạt điều chỉnh (Hình E1)**

Góc phun từ cần phun có thể được điều chỉnh bằng cách xoay đầu vòi. Thao tác này sẽ thay đổi kiểu phun từ luồng tác động cao có độ hẹp xấp xỉ 0 ° đến luồng quạt rộng 60°. Kiểu phun tán quạt rộng giúp phân phối tác động của nước lên một diện tích rộng hơn, từ đó đem lại khả năng làm sạch tốt hơn trong khi giảm nguy cơ hư hỏng bề mặt. Diện tích bề mặt lớn có thể được làm sạch nhanh hơn bằng cách sử dụng kiểu phun tán quạt rộng.

Luồng phun kiểu tia nước hẹp giúp phân phối tác động của nước lên một diện tích tập trung, đem lại lực tác động lớn trên bề mặt cần làm sạch. Sử dụng luồng phun kiểu tia nước hẹp để làm sạch mạnh mẽ trên một vùng tập trung. Tuy nhiên, hãy thận trọng khi sử dụng nó, vì nó có thể làm hỏng một số bề mặt.

Kiểu đầu vòi	Ứng dụng
Đầu vòi phun kiểu tán quạt đến phun kiểu tia	Để làm sạch vùng rộng một cách nhẹ nhàng
Vòi phun Turbo	Cho mục đích làm sạch kiểu mài mòn

**Gắn máy tạo bọt(Hình I)**

Để kết nối máy tạo bọt( 11 ) với tay cầm vòi phun ( 4 ), lắp phần cuối của máy tạo bọtvào bên trong tay cầm vòi phun và xoay máy tạo bọtngược chiều kim đồng hồ để cố định vào vị trí.

**Lưu ý:** Không thể lắp cần phun và máy tạo bọtcùng một lúc.

**Lưu ý:** Máy tạo bọtphải được đặt bên dưới thân của tay cầm vòi phun. Không đặt máy tạo bọtphía trên thân súng nhựa vì sẽ làm cho xà phòng nhỏ giọt trên thân súng.

## Vận hành

**Cảnh báo!** CHỈ nối thiết bị này với nguồn nước lạnh.

**Cảnh báo!** Động cơ của máy phun rửa áp lực này sẽ KHÔNG chạy. Nó sẽ chỉ hoạt động khi bóp cò.

- Kết nối ống đầu ra với máy phun rửa và kết nối súng phun vào ống vòi đầu ra.
- Kết nối ống vòi và phần mở rộng ống vòi.
- Kiểm tra bộ lọc lưới xem có bị tắc nghẽn không.
- Kết nối ống cấp nước.
- Kiểm tra để bảo đảm ống mềm không bị gấp khúc.
- Bật nước và kiểm tra rò rỉ.
- Bóp cò để đẩy không khí ra ngoài qua bơm và ống mềm, khóa cò.
- Cắm thiết bị và bật công tắc.
- Mở khóa cò và sử dụng máy phun rửa áp lực.

## Tắt

- Tắt động cơ ( gạt công tắc sang vị trí tắt ).
- Rút phích cắm thiết bị khỏi nguồn điện.
- Tắt nguồn cấp nước
- Nhấn cò súng để làm giảm áp suất của hệ thống.
- Ngắt kết nối vòi vườn khỏi máy phun rửa áp lực.
- Lau tắt cả bề mặt của thiết bị bằng khăn sạch ẩm.
- Khóa an toàn súng.

**Thận trọng:** LUÔN tắt động cơ thiết bị TRƯỚC KHI tắt nguồn cấp nước của thiết bị. Có thể xảy ra hư hỏng nghiêm trọng đối với động cơ nếu thiết bị chạy mà không có nước.

**Thận trọng:** KHÔNG BAO GIỜ ngắt kết nối vòi xả cao áp từ máy trong khi hệ thống vẫn còn áp suất.

Để giảm áp suất thiết bị, tắt động cơ, tắt nguồn cấp nước và bóp cò 2-3 lần.

## Vị trí tay thích hợp (Hình G)

**Cảnh báo!** Để giảm nguy cơ chấn thương cá nhân nghiêm trọng, hãy luôn sử dụng vị trí đặt tay thích hợp như hình minh họa.

**Cảnh báo!** Để giảm nguy cơ thương tích cá nhân nghiêm trọng, hãy luôn thận trọng trong việc dự đoán phản ứng bất ngờ.

Vị trí tay thích hợp tức là người dùng phải đặt một tay lên tay nắm vòi phun ( 5 ) và tay còn lại trên tay cầm vòi phun ( 4 ).

## Hướng dẫn vệ sinh điểu (Hình J)

- Sử dụng bộ vệ sinh điểu đi kèm hoặc kẹp giấy được vận một đầu ra ngoài, luồn dây vào lỗ vòi phun và di chuyển qua lại cho đến khi kéo bụi bẩn ra.
- Vệ sinh kỹ hơn bằng cách xả ngược nước qua vòi phun. Để thực hiện việc này, hãy đặt phần cuối của một vòi vườn ( với nước chảy ) vào phần cuối vòi trong 30-60 giây.

## Làm sạch bộ lọc (Hình K)

Kiểm tra bộ lọc trước mỗi lần sử dụng và làm sạch, nếu cần. Tháo bộ lọc và để dưới vòi nước chảy để loại bỏ bụi bẩn.

## Tự mỗi (Hình C, E, N1, N2, N3, N4, N5, N6, N7)

- Kết nối ống vào với máy rửa áp lực. Tham khảo Gắn vòi tưới vườn trong phần Lắp ráp.
- Đặt đầu còn lại của ống có gắn bộ lọc vào nguồn nước khác ( ví dụ: xô, v.v. )
- Nối ống cao áp vào tay cầm vòi phun. Vui lòng tham khảo Cách gắn ống cao áp trong phần Lắp ráp.
- Cắm máy rửa áp lực vào nguồn điện.
- Kích hoạt máy rửa áp lực bằng cách xoay nút Bật/Tắt về vị trí Bật.
- TẮT máy rửa áp lực ngay khi nước đang phun từ ống ra của thiết bị.
- Rút phích cắm của máy rửa áp lực khỏi nguồn điện.
- Lắp ống cao áp vào đầu ra nước áp lực cao.
- Cắm máy rửa áp lực vào nguồn điện.
- Kích hoạt máy rửa áp lực bằng cách xoay nút Bật/Tắt về vị trí Tắt.
- Kích hoạt cò của tay cầm vòi phun để bắt đầu công việc làm sạch.

## Bảo dưỡng

**Cảnh báo!** Để giảm nguy cơ thương tích cá nhân nghiêm trọng, hãy tắt và ngắt kết nối thiết bị khỏi nguồn điện trước khi thực hiện điều chỉnh hoặc tháo/lắp các linh phụ kiện. Vô tình khởi động có thể gây thương tích.

## Làm sạch

**Cảnh báo!** Thổi bụi bẩn ra khỏi tất cả các lỗ thông hơi bằng không khí sạch và khô tối thiểu 1 lần/tuần.

Để giảm thiểu nguy cơ tổn thương mắt, hãy luôn đeo kính bảo hộ mắt đã được phê duyệt khi thực hiện quy trình này.

**Cảnh báo!** Không bao giờ được sử dụng dung môi hoặc các hóa chất mạnh khác để làm sạch các bộ phận phi kim của công cụ. Những hóa chất này có thể làm yếu vật liệu nhựa được sử dụng trong các bộ phận này. Chỉ sử dụng một miếng vải ẩm với nước và xả phòng nhẹ. Không bao giờ được để bất kỳ chất lỏng nào rơi vào bên trong công cụ; không bao giờ nhúng bất kỳ bộ phận nào của công cụ vào chất lỏng.

## Cất giữ (Hình O, P)

- Cất giữ ở nơi khô ráo, có mái che với nhiệt độ xung quanh ở trên mức nhiệt độ đóng băng. CẤT GIỮ TRONG NHÀ.
- Luôn xả sạch hoàn toàn nước từ ống cao áp, máy rửa áp lực, đầu vòi và cần phun.

# TIẾNG VIỆT

- Có thể cắt đầu vòi như trong Hình H.

**Chú ý:** Turbo (BEPW2200) hay đầu vòi bút đến quạt có thể được cắm trên cần phun.

- Dây nguồn có thể được cuộn lại và được bảo vệ bằng móc giữ dây ( 22 ) như trong Hình p.
- Có thể cuộn ống cao áp (1) và cố định nó vào tay cầm ( 18 ) bằng móc ( 18a ) ( BEPWB2000 ).
- Tay cầm vòi phun với đầu và vòi phun đã lắp ráp có thể được trữ trong bao da ( 26 ) ở bên cạnh máy ( Hình P ).

## Linh phụ kiện

**Cảnh báo!** Vì các linh phụ kiện, ngoài những linh phụ kiện do BLACK + DECKER cung cấp, chưa được thử nghiệm với sản phẩm này, việc sử dụng các linh phụ kiện đó với công cụ này có thể gây nguy hiểm. Để giảm nguy cơ bị thương, chỉ sử dụng các linh phụ kiện được BLACK + DECKER khuyến cáo dành cho sản phẩm này. Bạn có thể mua các linh phụ kiện được khuyến cáo sử dụng cho công cụ của mình từ đại lý địa phương hoặc trung tâm dịch vụ được ủy quyền. Nếu bạn cần hỗ trợ xác định linh phụ kiện cần thiết, vui lòng liên hệ [www.blackanddecker.com](http://www.blackanddecker.com).

## Bảo vệ môi trường



Thu gom riêng. Không được vứt bỏ các sản phẩm và pin có ký hiệu này cùng với rác thải sinh hoạt thông thường.

Các sản phẩm và pin chứa vật liệu có thể được thu hồi hoặc tái chế nhằm giảm nhu cầu về vật liệu thô. Vui lòng tái chế sản phẩm điện và pin theo các quy định tại địa phương.

## Xử lý sự cố

Triệu chứng	Nguyên nhân tiềm ẩn	Biện pháp xử lý
Khi bật mà máy không bắt đầu hoạt động	1. Phích cắm không được kết nối tốt hoặc ổ cắm điện bị lỗi	1. Kiểm tra phích cắm, ổ cắm
	2. Điện áp nguồn không đủ, thấp hơn yêu cầu tối thiểu	2. Kiểm tra xem điện áp nguồn có đủ không.
	3. Bơm bị kẹt.	3. Tham khảo hướng dẫn sau khi bảo quản.
	4. Công tắc an toàn nhiệt bị tắc.	4. Tắt thiết bị và chờ động cơ nguội trong vài phút. 5. Để cây phun mở.
Áp suất dao động	1. Bơm hút khí.	1. Kiểm tra xem ống và kết nối là kín khí.
	2. Van bán, mòn hoặc kẹt. Vòng đệm bơm bị mòn.	2. Làm sạch và thay thế, hoặc tham khảo đại lý.
Nước rỉ từ máy bơm.	Vòng đệm bị mòn.	Kiểm tra và thay thế, hoặc tham khảo ý kiến đại lý.

Động cơ dừng đột ngột.	Công tắc an toàn nhiệt bị lỗi do quá nhiệt.	Kiểm tra xem điện áp nguồn có tương ứng với thông số kỹ thuật không. Tắt thiết bị và chờ nguội trong vài phút.
Máy bơm không đạt áp suất cần thiết.	1. Bộ lọc nước đầu vào bị tắc.	1. Làm sạch bộ lọc nước đầu vào.
	2. Bơm hút không khí từ các mối nối hoặc ống mềm.	2. Kiểm tra xem tất cả mối nối nguồn cấp có chặt kín không.
	3. Van hút/van phân phối bị tắc hoặc mòn.	3. Kiểm tra xem ống cấp nước có bị rò rỉ không.
	4. Van không tải bị kẹt.	4. Tháo hoặc thay van.
	5. Cây phun không chính xác hoặc bị mòn.	5. Nới và vặn lại vít điều chỉnh. 6. Kiểm tra và/hoặc thay thế.

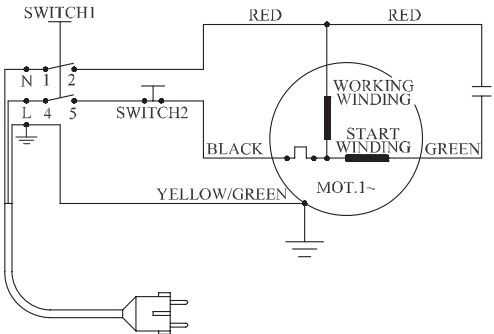
## Thông tin dịch vụ

BLACK+DECKER có một mạng lưới đầy đủ các điểm dịch vụ trực thuộc công ty và được ủy quyền trên khắp châu Á. Tất cả các Trung tâm dịch vụ của BLACK+DECKER đều có đội ngũ nhân viên được đào tạo nhằm cung cấp cho khách hàng các dịch vụ về sản phẩm hiệu quả và đáng tin cậy. Khi bạn cần lời khuyên về kỹ thuật, sửa chữa hay bộ phận thay thế chính hãng, hãy liên hệ với: Trung Tâm Bảo Hành Ủy Quyền BLACK+DECKER gần nhất.

## Ghi chú

- Chính sách của BLACK + DECKER luôn được cải tiến liên tục cho các sản phẩm của chúng tôi và do đó, chúng tôi có quyền thay đổi các thông số kỹ thuật của sản phẩm mà không cần thông báo trước.
- Thiết bị và linh phụ kiện tiêu chuẩn có thể khác nhau tùy theo quốc gia.
- Thông số kỹ thuật của sản phẩm có thể khác nhau tùy theo quốc gia.
- Toàn bộ dòng sản phẩm có thể có không đầy đủ ở tất cả các quốc gia.
- Hãy liên hệ với các đại lý BLACK + DECKER tại địa phương của bạn để biết những linh phụ kiện/sản phẩm có sẵn.

## SƠ ĐỒ MẠCH ĐIỆN



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