





**H**

0°							
Turbo°							
15°							
Vario 20°							
25°							
40°							
60°							
Vario 60°							

## English

Please read these operating and safety instructions along with any other disclosed documents prior to initial use of the device. Keep all documents for future reference.

## Introduction

Congratulations on your new pressure washer! This appliance is a powerful tool and needs to be handled with care.

AVA uses clever engineering to improve cleaning efficiency, and you might experience a higher level of efficiency than on comparably specified appliances you have tried previously. Always perform a cleaning test on an area that is less visible and familiarize yourself with the included accessories.

Your AVA appliance always includes a high-pressure hose, high pressure gun, a lance, a nozzle and a purpose-built inlet filter with a garden hose connector. Never use a regular garden hose connector without filter directly on the machine. If you have purchased an expanded bundle, there might be additional accessories included. The contents of the delivery scope are described in a separate document.

## Explanation of Symbols



**WARNING!** Do not direct the jet at any persons, animals or electrical equipment.



**WARNING!** Read safeguards, warnings and safety tips carefully.



Machine not suitable for connection to potable water mains without a back-flow valve, unless the water pressure exceeds 1 bar.



Read the manual



Double insulation

## Safeguards, Warnings and Safety Tips



To avoid personal injury and/or damage to property and to maximize your power washing experience, carefully follow all the safety tips, instructions, warnings and safeguards and familiarize yourself with all the controls. Ensure that you know how to quickly bleed off the pressure from

all parts of your power washer, and how to turn the power washer off.

- Always wear eye protection to prevent injury to the eyes when operating the power washer.
- This power washer conforms to CE and other safety and consumer standards. Do not modify or rebuild any part of your power washer.
- Do not use your power washer when under the influence of alcohol or drugs. Use this power tool carefully and only when you are alert.
- Watch your balance and footing while using your power washer. Surfaces become slippery when wet and are extra slippery when using a detergent or cleaner.
- Never operate the power washer barefoot, wearing sandals, or open-toed shoes. Be sure to wear protective, fully covered shoes or boots.
- When using the power washer near children make sure they are closely supervised by an adult to avoid injury. Never let a child use the power washer.
- Keep fingers, hands, feet and parts of your body clear of the high-pressure water jet. The powerful spray can cause blindness or tear holes in the skin. Pay attention around all glass surfaces, as the jet could actually break a window if you are too close when you pull the trigger on the spray gun.
- To avoid mishaps or injury, always use the trigger safety lock when not using the power washer even if the spraying stops for just a moment.
- Always test the surface to ensure that you do not damage it with the high pressure.
- Point the spray gun in a safe direction when beginning a power washing session.
- When first using the spray gun, hold the spray gun and lance with two hands to avoid mishaps or injury, and always use the trigger safety lock when not using the power washer even if the spraying stops for just a moment.
- When you press the power switch to turn the power washer off, water pressure may remain in the system. To discharge the pressure, point the spray gun in a safe direction and pull the trigger.
- Never spray flammable liquids.
- Never use the power washer in areas that contain combustible dust, liquids or vapors.
- Avoid contact of the pressure hose with sharp objects and examine the hose regularly. Replace if damaged. Due to the high pressure involved, it cannot be repaired if cut or damaged.
- Only use detergent specifically formulated for power washers and follow the instructions on the detergent label. Dish or laundry soap is too thick and will clog the nozzle of your lance and detergent bottle.

- Protect eyes, lungs, and skin from exposure to detergent.
- **IMPORTANT:** Store the power washer indoors to prevent the water in the unit from expanding under freezing conditions. When the water freezes and expands, your power washer will be damaged and become inoperable.
- Never use hot water with your power washer(40°C+). It will overheat and damage the high-pressure pump.
- Never use Water Inlet Connection with check valve/stop valve
- Never leave the power washer unattended while it is powered “on”.
- Always turn the water supply “on” before turning the power washer power “on”. Running the pump dry will damage the internal components.
- Never use a water supply to your power washer exceeding 6 bar maximum.
- Never disconnect the high-pressure hose from the power washer while the system is pressurized.
- Never permanently engage the trigger mechanisms on the spray gun.
- Never operate the power washer unless all components are properly and securely connected.
- Never allow the power washer pump to run for more than one minute after turning off the water supply. This can cause the motor and pump to overheat and fail.
- Only use lances and accessories that are specified to withstand the water pressure of the machine.
- Never spray any electrical outlet with your power washer.
- Inspect the power cord before use. Do not use it if damaged.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazardous situations.



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

- The machine should not be used by children. Children should be supervised to ensure that they do not play with the machine.
- The appliance 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 appliance in a safe way and understand the hazards involved.
- The electric supply connection must be made

- by a qualified electrician and comply with the pressure washer’s specifications. 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.
- **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:** High pressure jets can be dangerous if misused. The jet must not be directed at persons, live electrical equipment or the machine itself.
- **WARNING:** Do not use the machine within range of people unless they wear protective clothing.
- **WARNING:** Do not direct the jet against yourself or others in order to clean clothes or footwear.
- **WARNING:** Risk of explosion – Do not spray flammable liquids.
- **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 back-flow valves is considered non-potable.
- **WARNING:** The machine shall be disconnected from its power source by removing the plug from the socket-outlet during cleaning or maintenance and when replacing parts.
- **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 must be suitable for outdoor use, and the connection must be kept dry and off the ground. It is recommended to accomplish this by using a cord reel that keeps the socket at least 60 mm above the ground.
- **WARNING:** Always switch off the mains disconnecting switch when leaving the machine unattended.

#### **Servicing of a Double-Insulated Appliance**

In a double-insulated product, two systems of insulation are provided instead of grounding. Grounding means are not provided for a double-insulated product, nor should grounding means be added to the product. Servicing a double-insulated product requires

extreme care and knowledge of the system and should only be done by qualified service personnel. Replacement parts for a double-insulated product must be identical to the original parts. A double-insulated product is marked with the words “Double Insulation” or “Double Insulated”. Product may also be marked with symbol shown below.



## Unpacking & Preparation Instructions

After unpacking the high pressure washer, lay out the parts and accessories. Familiarize yourself with the parts in the package by comparing them to those listed on the box and attached documents. If assembly is required, refer to the attached assembly instructions.

### Water Inlet Connection

Attach the included water inlet filter as shown in illustration A, hand tightening is enough. Never use a standard inlet connector without water filter. Attach your garden hose to the filter connector. The included water filter fits standard quick connectors for garden hoses (Gardena). Never use Water Inlet Connection with check valve/stop valve (see illustration I).

### High Pressure Hose

Ensure that there is no visible damage of the high-pressure hose, and connect it to the female connector on the machine as shown in illustration B. Connect the other end into the high-pressure gun as shown in illustration C. One or both of these connections may already be connected from the factory. If both ends look the same, the hose can be used in either direction. Make sure the hose clicks into place and is securely fastened.

### High Pressure Gun

After connecting the pressure gun to the hose, test the trigger and safety lock. Open the water outlet valve going into the machine, and make sure there are no leaks. No water should be able to escape the water inlet connector, machine, high-pressure hose or high-pressure gun. Make sure the safety lock/child proofing works, as shown in illustration D. It should not be possible to suppress the trigger while the safety lock is engaged. Unlock the safety and suppress the trigger until there is a steady and even water stream from the gun.

### Spray Gun, Lance and Accessories

The pressure washer is meant to be used with accessories mounted on the pressure gun. All accessories are attached using a bayonet connector. Push the bayonet end into the female bayonet connector, twist counterclockwise and let go. Ensure

that the accessory is securely fastened. Refer to illustration E. All accessories, except for accessories using pinpoint nozzles (for instance the turbo nozzle) can be attached directly on the gun. For safety reasons, accessories that use pinpoint nozzles (for instance the turbo nozzle), are only to be used with included lance(s), see figure F. This is due to safety regulations that dictate a minimum distance between the handle and harmful water jets. One or more of the pictured nozzles are included as standard.

## Test and Startup

Plug the power cable into an approved power outlet. To the extent possible, AVA recommends using a pressure hose extension (not included) rather than using a power cord extension. If an extension cord is used, it must be approved for outdoor use, and the cross section of the cord needs to be minimum 1.5 mm<sup>2</sup> on up to a 10m cord, and minimum of 2,5mm<sup>2</sup> from 10m to 20m cords. Never use a cord that exceeds 20m. Ensure that the safety lock on the trigger is engaged. Turn the power switch on the machine to “1,” see illustration G. The machine has the international symbols “0” for off, and “1” for on. The machine should make a short motor sound, and quickly stop. Direct the pressure gun in a safe direction, disengage the safety lock and suppress the trigger. The machine will now start, and there might be a noticeable kick-back/movement in the gun. Every time the trigger is released, the machine should quickly stop.

Familiarize yourself with the different pressure nozzles and the water jets they deliver. The relation between power, work area and distance is explained in illustration H.

## Operating Instructions

Consider the user manual and warnings and use common sense. There are different opinions on what can be cleaned using high pressure, but from our experience, common sense will get you a long way. Illustrations H and I show some of the possibilities and areas of use, but we recommend also visiting our website for more information. Remember that the water force decreases while the contact area increases with larger surface distance. Remember to always engage the safety lock while not holding the pressure gun and follow the “after use” instructions before storing the machine. If the motor turns on for short periods, this is completely normal. The pump is priming itself to be ready to go for when the pressure gun trigger is suppressed. Turn the pressure washer off, if not used for periods longer than 5 minutes. Do not press the trigger several times in quick succession, as this can cause the total stop system to malfunction. Squeeze the trigger slowly and methodically. The O-rings inside the bayonets

and extension lances should be cleaned regularly and lubricated using grease or silicone-based lubricant. For instructions on extra accessories, purchased separately or bonus items, go to the AVA website: [www.avaofnorway.com](http://www.avaofnorway.com)

### Packing and storage

When you are finished using the machine, do the following: Engage the safety switch on the pressure gun. Turn the power switch on the machine from 1 to 0 and turn off the water flow from the faucet. Disengage the safety switch and press the trigger to release the remaining high pressure. Be aware that the system still is pressurized up to this point and be sure to point the spray in a safe direction. Disconnect the garden hose and detach nozzle and/or lance from the gun. Press the trigger once again. Some water may exit the water inlet connection or the gun. Finish by engaging the safety switch on the gun and disconnect the power plug.

Store the machine and accessories in an environment that has no risk of freezing temperatures. If this presents a challenge, follow the instructions for freeze protecting the machine on the AVA website: [www.avaofnorway.com](http://www.avaofnorway.com)

Good luck with your new pressure washer. We hope that it will provide satisfaction for years to come, whether you love cleaning, or want to get things done quickly. In both cases you have made the best possible decision in buying an AVA.

### General Tips

- Firstly, the best advise we can give is to visit [www.avaofnorway.com](http://www.avaofnorway.com) to learn more about your pressure washer, as well as techniques, accessories, etc.
- Clean from the bottom up. This helps you see what you have cleaned and ensures that you don't rinse away cleaning agents before you actually clean. Finally, rinse from the top down. This tip applies to almost everything you would want to clean.
- Do not store the pressure washer near heaters or other heat sources, as this could cause the gaskets inside the pump to dry out.
- Remember: There will always be residual water left in the pump. Water that dries up over time could leave lime or humus behind, which can get stuck in the movable parts of the pump. A pressure washer that gets used regularly will normally last longer than one that only sees use once every year.
- If the machine is to be stored for extended periods without being used, we recommend following the guidelines for long-term storage found on [www.avaofnorway.com](http://www.avaofnorway.com)
- The filter on the water inlet connector should

be cleaned regularly. Push a pen or pencil into the smallest opening in the detached connector and push the filter out. Rinse in clean water and reassemble.

- Familiarize yourself with all documentation in the box, and also check [www.avaofnorway.com](http://www.avaofnorway.com) regularly, if you are interested in new products or accessories for your pressure washer.

### How to Avoid Damaging Surfaces

Damage to surfaces being cleaned occurs because the impact force of the water pressure exceeds the durability of the surface. Bare wood can be penetrated; paint can be peeled off, etc. You can vary the force of your power washer by controlling:

- the angle of the water spray to the surface being cleaned
- the distance of the nozzle from the surface being cleaned

Never use a narrow high-pressure stream of water from the lance on soft surfaces susceptible to damage.

### 3rd Party Equipment

If you want to use equipment from another pressure washer or manufacturer, be aware of the following:

- For accessories to be compatible they need to be fitted with the same bayonet connection that AVA uses. Compare the accessories and never try to attach equipment that appears significantly different.
- Low-pressure equipment, such as waterflow brushes, rim brush etc. can be used regardless of AVA model, as long as the bayonet adapter can be attached to the lance.
- High-pressure equipment, such as fixed nozzles, rotating nozzles, patio cleaners etc. all have nozzle openings that are adjusted for machine specifications. It is important not to mix accessories made for differently specified machines. A general guideline is to compare the specified wattage of the machine that the accessory is meant for with the wattage of the machine you wish to use. If they are approximately the same, you can generally use the equipment interchangeably.
- If the machine is pulsing (turns quickly on and off while spraying), the accessory cannot be used.
- Some pressure guns use the same hose connection as AVA. If a pressure gun fits the hose of your AVA pressure washer, it can be used as an adapter for other accessories. You still have to follow the above guidelines, and AVA original accessories will always be the best choice.

## SAVE THESE INSTRUCTIONS

- To reduce the risks of fire or explosion, electrical shock, and the injury to persons, read and understand all instructions included in this manual. Be familiar with the controls and the proper usage of the equipment.
- **WARNING** – To reduce the risk of fire or explosion:
  - 1) Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
  - 2) For units intended for use with only water-based materials – Do not spray or clean with flammable liquids. For use with water-based liquids only.
  - 3) For units intended for use with only water-based or mineral spirit-type materials with a minimum flash point of 21°C (69.8°F) – Do not spray or clean with liquids having a flash point less than 21°C (69.8°F).
  - 4) Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. All parts of the spray system, including the pump, hose assembly, spray gun, and objects in and around the spray area shall be properly grounded to protect against static discharge and sparks. Use only conductive or grounded high-pressure airless paint sprayer hoses specified by the manufacturer.
  - 5) Verify that all containers and collection systems are grounded to prevent static discharge.
  - 6) Connect to a grounded outlet and use grounded extension cords. Do not use a 3 to 2 adapter.
  - 7) Do not use a paint or a solvent containing halogenated hydrocarbons. See operating instructions for examples of these types of materials.
  - 8) Keep spray area well ventilated. Keep a good supply of fresh air moving through the area. Keep pump assembly in a well ventilated area. Do not spray pump assembly.
  - 9) Do not smoke in the spray area.
  - 10) Do not operate light switches, engines, or similar spark producing products in the spray area.
  - 11) Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
  - 12) Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvent manufacturer's safety instructions.
  - 13) Fire extinguisher equipment shall be present and working.
- **WARNING** – To reduce the risk of skin injection:
  - 1) Do not aim the gun at, or spray any person or animal.
  - 2) Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
  - 3) Always use the ispray tip guard. Do not spray without ispray tip guard in place.
  - 4) Only use a ispray tip specified by the manufacturer.
  - 5) Use caution when cleaning and changing ispray tips. In the case where the ispray tip clogs while spraying, follow the manufacturer's instructions for turning off the unit and relieving the pressure before removing the ispray tip to clean.
- 6) Do not leave the unit energized or under pressure while unattended. When the unit is not in use, turn off the unit and relieve the pressure in accordance with the manufacturer's instructions.
- 7) High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, seek medical attention immediately.
- 8) Check hoses and parts for signs of damage. Replace any damaged hoses or parts.
- 9) This system is capable of producing \_\_\_\_\_ psi. Only use replacement parts or accessories that are specified by the manufacturer and that are rated a minimum of \_\_\_\_\_ psi.
- 10) Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
- 11) Verify that all connections are secure before operating the unit.
- 12) Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.
- **WARNING** – To reduce the risk of injury:
  - 1) Always wear appropriate gloves, eye protection, and a respirator or mask when painting.
  - 2) Do not operate or spray near children. Keep children away from equipment at all times.
  - 3) Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
  - 4) Stay alert and watch what you are doing.
  - 5) Do not operate the unit when fatigued or under the influence of drugs or alcohol.
  - 6) Do not kink or over-bend the hose.
  - 7) Do not expose the hose to temperatures or to pressures in excess of those specified by the manufacturer.
  - 8) Do not use the hose as a strength member to pull or lift the equipment.
  - 9) To reduce the risk of injury, close supervision is necessary when a product is used near children.



Electrical and electronic appliances contain valuable, recyclable materials and often components such as batteries, rechargeable batteries or oil, which - if handled or disposed of incorrectly - can pose a potential danger to human health and the environment. However, these components are required for the correct operation of the appliance. Appliances marked by this symbol are not allowed to be disposed of together with the household rubbish.

- Garden hose with commonly available coupling
  - Fabric reinforced
  - Diameter of at least 1/2 inch (13 mm)
  - Length at least 8 m

## TROUBLE SHOOTING AND FAQs

Unit will not turn on.

Make sure the power washer is in the “OFF” position. Plug in the electrical cord to a grounded 120 volt outlet (no electrical extension cord should be used).

The high pressure (HP) hose will not connect / stay connected to the spray gun. Is this a spray gun problem?

In most cases, the spray gun is not the problem. The problem is the rubber sleeve covering the fitting at the end of the high pressure hose. It has likely slipped up toward the metal tip. The fix: wiggle, twist and/or pull the rubber sleeve down until the entire tip is visible plus an 1/8” of the metal fitting below the tip. Now try to insert the hose tip into the spray gun. It should “click” into place and will not come out until the hose is released by pushing in the lever on the underside of the gun. You may cut away the end of the sleeve with a sharp knife if unable to move the sleeve down. Be careful not to cut or puncture the hose.

The unit is running but there is not water flow

Check the water source. Unclog the nozzle on the lance. (See nozzle cleaning instructions under “Cleaning nozzles”) Or take off the lance and just spray out of the spray gun. This will indicate if the problem is with the lance or the spray gun

Why is water leaking where the high pressure hose connects to the spray gun?

Make sure there is an o-ring at the end of the metal tip of the high pressure hose. If no o-ring is present, the connection between the hose and spray gun will leak.

I can't remove the lance from the spray gun. What should I do?

The lance is attached and removed from the spray gun in the same manner. Insert the quick-release end of the lance into the spray gun. Press the spray gun and lance together (about a 1/8”) and turn clockwise. The lance will lock in place. Remove the lance by reversing this procedure. Press the spray gun and lance together and turn counter clockwise. The lance will slide out. Or, hold the spray gun and lance in an upright position with the nozzle end on the floor. Push the whole assembly straight down to loosen the connection, and then follow the removal process again. You may also spray soapy water or a lubricant in the area where the lance connects to the spray gun. Remember to loosen/tighten the locking collar on the lance in between operations!

The power washer turns on for 2 seconds, shuts off, and will not turn back on. Do I have a defective unit?

No, it sounds like your power washer is working just fine. When the water is connected, the accessories are assembled properly, and the power switch is turned on, the power washer will turn on for 1 - 2 seconds to prime the pump. It automatically shuts off and waits for the spray gun trigger to be squeezed. When the trigger is squeezed, water starts flowing through the pump. The water sensor in the pump “senses” the moving water and automatically turns the power washer on. Or, turn the power switch to off, hold in the trigger on the spray gun, so that you have a steady stream of water. While you are holding the trigger open on the spray gun, at the same time, turn the power switch on.



