

RE 140.0 VARIO CONTROL

STIHL



2 - 29

Instruction Manual



WARNING

Read Instruction Manual thoroughly before use and follow all safety precautions – improper use can cause serious or fatal injury.



ADVERTENCIA

Antes de usar la máquina lea y siga todas las precauciones de seguridad dadas en el manual de instrucciones – el uso incorrecto puede causar lesiones graves o mortales.



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1 Introduction

Thank you for your purchase. The information contained in this manual will help you receive maximum performance and satisfaction from your STIHL pressure washer and, if followed, reduce the risk of injury from its use.

SAVE THIS MANUAL!



Because the pressure washer is electrically powered and produces a strong water jet, special safety precautions must be observed to reduce the risk of personal injury.



Read this instruction manual thoroughly before use and periodically thereafter. Follow all safety precautions. Careless or improper use of the pressure washer can cause serious or fatal injury.

Do not lend or rent your pressure washer without this instruction manual. Allow only persons who fully understand the information in this manual to operate the pressure washer.

For further information, or if you do not understand any of the instructions in this manual, please go to www.stihlusa.com or contact your authorized STIHL servicing dealer.

2 Guide to Using this Manual

2.1 Signal Words

This manual contains safety information that requires your special attention. Such information is introduced with the following symbols and signal words:



DANGER

- Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

- Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

- Indicates a risk of property damage, including damage to the machine or its individual components.

2.2 Symbols in Text

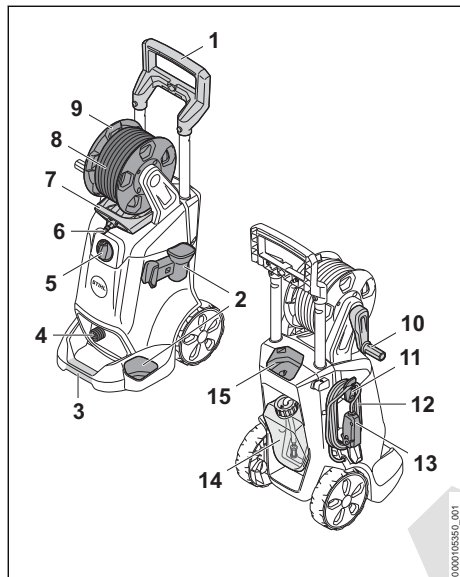
The following symbol is included to assist you with the use of the manual:



Refers to a designated chapter or subchapter in this instruction manual.

3 Main Parts

3.1 Pressure Washer



- 1 Pushbar**
For transporting the pressure washer.
- 2 Holder for Spray Attachment**
For storing the spray gun and spray lance.
- 3 Carrying Handle**
For lifting and transporting the pressure washer.
- 4 Connector for Water Inlet**
For connecting the water hose to the high-pressure pump.
- 5 Power Switch**
Switches the motor on and off.
- 6 Coupling**
For connecting the high-pressure hose to the spray gun.
- 7 Guide Bar**
Guides the high-pressure hose onto the hose reel.
- 8 High-pressure Hose**
Carries the water from the high-pressure pump to the spray gun.
- 9 Hose Reel**
For rolling up the high-pressure hose.
- 10 Crank Handle**
For turning the hose reel.

11 Brackets for Power Supply Cord with Clip

For storing the power supply cord. The clip secures the power supply cord.

12 Power Supply Cord

Supplies the pressure washer with electricity when connected to an electrical outlet (power supply).

13 Plug with GFCI

Connects the power supply cord to an electrical outlet. The integrated GFCI is designed to reduce the risk of electric shock.

14 Detergent Container

The detergent container is used for cleaning with detergent.

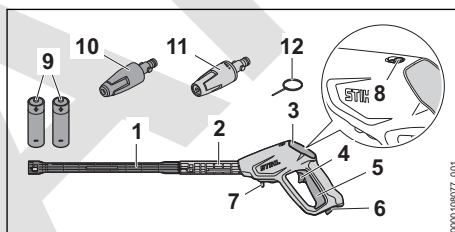
15 Storage Compartment

For storing the high-pressure nozzles.

Rating Plate

Contains electrical information and the product's serial number.

3.2 Spray Attachment



1 Spray Lance

Directs the water from the spray gun to the spray nozzle.

2 Spray Gun

For controlling and directing the water jet.

3 Operating Unit, 3.3

The operating unit contains the control panel and batteries.

4 Trigger Switch

The trigger switch is used to dynamically set the working pressure and the amount of water.

5 Spray Gun Trigger

Opens and closes the valve in the spray gun. The spray gun trigger starts and stops the water jet.

6 Retaining Latch

Locks/unlocks the spray gun trigger.

7 Coupling for High-Pressure Hose

For connecting the high-pressure hose to the spray gun.

8 Release Slider

Locks/unlocks the operating unit.

9 AAA Batteries

Two AAA batteries power the spray gun.

10 Rotary-jet Nozzle

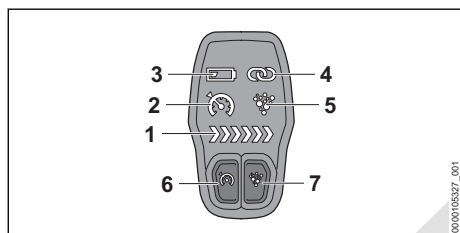
Rotating nozzle for removing stubborn dirt.

11 Fan-jet Nozzle

Universal nozzle for cleaning larger surfaces.

12 Cleaning Needle

For removing dirt and debris from the spray nozzles.

3.3 Control Panel**1 Working Pressure LED**

Indicates dynamically the current working pressure.

2 Constant Working Pressure LED

Indicates that constant working pressure is active.

3 Battery Status LED

Indicates that the batteries have to be replaced.

4 Connection Status LED

Indicates the connection status between the pressure washer and the spray attachment.

5 Detergent LED

Indicates the activation of the detergent.

6 Constant Working Pressure Button

For activating and deactivating constant working pressure and for pairing the pressure washer to the spray attachment.

7 Detergent Button

For activating and deactivating detergent.

4 Safety Symbols on the Product**4.1 Pressure Washer**

The following safety symbols are found on the pressure washer:



To reduce the risk of injury, follow the specified safety precautions.



Read and follow all safety precautions in the instruction manual. Improper use can lead to serious or fatal personal injury or property damage.



To reduce the risk of eye injury, always wear proper eye protection. 5.4.



To reduce the risk of cut injuries, keep hands, feet and other body parts away from the water jet, 5.9.4.



To reduce the risk of serious or fatal injury to the operator or bystanders, never direct the high-pressure jet toward the operator, bystanders or animals, not even to clean clothing or shoes, 5.9.4.



To reduce the risk of short-circuiting, fire and electrocution, never spray near power sources. Do not rely on the pressure washer's insulation against electric shock, 5.9.4.



To reduce the risk of short-circuiting, fire and electrocution, never direct the spray at electrical appliances and equipment, sockets or power cords, 5.9.4.



To reduce the risk of injury or property damage, immediately disconnect the pressure washer from the power supply if the power supply cord is damaged, 12.



To reduce the risk of fire/explosion resulting in serious or fatal injury or property damage, never spray flammable or combustible liquids, 5.9.4.



To reduce the risk of damage to the pressure washer, do not allow the pressure washer to be used or stored in freezing temperatures. Store the pressure washer indoors in a dry, secure place that cannot be accessed by children or other unauthorized users, 6.

5 IMPORTANT SAFETY INSTRUCTIONS

5.1 General Safety Warnings and Instructions

This section contains the prescribed general safety warnings and instructions for electric high-pressure cleaners / pressure washers. Additional important warnings and instructions are provided in subsequent sections of this manual.

▲ WARNING

When using electric pressure washers, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

- 1) Read all the instructions before using the product.
- 2) To reduce the risk of injury, close supervision is necessary when a product is used near children.
- 3) Know how to stop the product and bleed pressures quickly. Be thoroughly familiar with the controls.
- 4) Stay alert – watch what you are doing.
- 5) Do not operate the product when fatigued or under the influence of alcohol or drugs.
- 6) Keep operating area clear of all persons.
- 7) Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- 8) Follow the maintenance instructions specified in the manual.
- 9) This product is provided with a Ground Fault Circuit Interrupter built into the power cord or plug. If replacement of the Ground Fault Circuit Interrupter or cord is needed, use only identical replacement parts.
- 10) WARNING – Risk of eye injury. Spray can splash back or propel objects. Always wear properly rated eye protection such as safety goggles or face shield while spraying. (Safety glasses do not provide full protection.)

GROUNDING INSTRUCTIONS

▲ WARNING

- This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This

product is equipped with a cord having an equipment grounding conductor and a ground pin. The plug must be plugged into an appropriate electrical outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Improper connection of the equipment-grounding conductor can result in a risk of electrocution. Check with a qualified electrician or service personnel if you are in doubt as to whether the electrical outlet is properly grounded. Do not modify the plug provided with the product – if it will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use any type of adapter with this product.

GROUND FAULT CIRCUIT INTERRUPTER PROTECTION

▲ WARNING

- This pressure washer is provided with a "ground fault circuit interrupter" (GFCI) built into the plug or the power-supply cord. This device provides additional protection from the risk of electric shock. Should replacement of the ground-fault circuit-interrupter or cord become necessary, use only identical replacement parts.

EXTENSION CORDS

▲ WARNING

- Risk of electrocution. Use of an extension cord could cause electric shock or burn, resulting in death or serious injury.
- Do not use an extension cord with this electric pressure washer. Your electrical circuit receptacle or extension cord may not provide life-saving protection with a ground fault circuit interrupter.
- This pressure washer is equipped with a "ground fault circuit interrupter" (GFCI) built into the power supply cord. Do not use an extension cord with this electric pressure washer.

INDIVIDUAL BRANCH CIRCUIT

▲ WARNING

- Connect to Individual Branch Circuit Only. An individual branch circuit is an electric circuit designed for powering a single electric device. Running several devices on one electrical circuit may lead to an overload and cause the circuit breaker or fuse to trip.

ADDITIONAL SAFETY INFORMATION**⚠ WARNING**

- Read and follow all safety precautions on labels and in instruction manual. Failure to follow these instructions can cause serious or fatal injury.
- Spray jet can splash back and propel objects at high speed. To reduce the risk of eye injury, always wear goggles that are impact-rated and comply with ANSI Z87 "+". Goggles must also be rated for protection against droplet/splash hazards according to ANSI Z87.1.
- Keep bystanders and animals out of the work area.
- Always wear hearing protection.
- See rating plate for maximum discharge pressure and maximum discharge temperature – use only high pressure hoses and accessories rated for these amounts or above. Use only genuine STIHL replacement parts.
- Spray gun produces strong recoil (kickback) opposite to direction of spray. Hold firmly with both hands to reduce the risk of injury from loss of control.
- Because of high pressure and water velocity, spray jet is very powerful. To reduce risk of severe lacerations and injection of fluids below the skin, never direct spray jet towards self, other persons or animals. Keep clear of nozzle while machine is operating. Make sure spray jet does not damage object being cleaned.
- To reduce risk of fire and explosion, never spray flammable liquids.
- To reduce risk of serious or fatal injury from electric shock, never use pressure washer if its power cord is cut, cracked, worn or damaged. Immediately disconnect a damaged cord.
- To reduce risk of electrocution and fire, never direct spray jet towards the machine itself, other electrical appliances or equipment, sockets or power cords. Never spray near power source.
- Protect against frost.
- Store indoors.
- If connection is made to a potable water system, the system must be protected against backflow.

RISK OF ELECTROCUTION**⚠ WARNING**

- Connect only to properly grounded outlet. Do not remove ground pin.
- Inspect cord before using – do not use if cord is damaged.
- Keep all connections dry and off the ground.
- Do not touch plug with wet hands.
- This product is provided with a ground fault circuit interrupter built into the cord plug. If replacement of the plug or cord is needed, use only identical replacement parts.
- Do not use an extension cord.
- Read instruction manual before using.

5.2 Intended Use**⚠ WARNING**

- This pressure washer is designed for cleaning jobs around the home and garden, cleaning garden furniture, walkways, patios, vehicles, trailers and other similar applications.
- Use your pressure washer only for cleaning solid surfaces and other items that will not be damaged by water or the force of the spray jet.
- Use the pressure washer only as described in this manual. Do not use it for other purposes, since misuse may result in personal injury or property damage, including damage to the pressure washer.
 - Never attempt to modify or override the pressure washer's controls or safety devices in any way.
 - Never use a pressure washer that has been modified or altered from its original design.

5.3 Operator**⚠ WARNING**

- Working with the pressure washer can be strenuous. The operator must be in good physical condition and mental health. To reduce the risk of personal injury:
 - Check with your doctor before using the pressure washer if you have any health condition that may be aggravated by strenuous work.
 - Do not operate the pressure washer while under the influence of any substance (drug, alcohol or medication, etc.) that might impair vision, balance, dexterity or judgment.
 - Be alert. Do not operate the pressure washer when you are tired. Take a break if you become tired.

- Do not permit minors to use the pressure washer.
- Bystanders, especially children, and animals should not be allowed in the area where the pressure washer is in use.
- According to STIHL's current knowledge, the electric motor of this pressure washer should not interfere with a pacemaker.
 - However, persons with a pacemaker or other implanted medical device should consult their physician and device manufacturer before operating this pressure washer.

5.4 Personal Protective Equipment

▲ WARNING

- To reduce the risk of personal injury:
 - Always wear proper clothing and protective apparel, including proper eye protection.
- To reduce the risk of eye injury:



- Always wear goggles that are impact-rated and marked as complying with ANSI Z87 "+". Goggles must also be rated for protection against droplet/splash hazards according to ANSI Z87.1.
 - Safety glasses do not provide full protection.
- Good footing is very important. To help maintain a secure footing and reduce the risk of injury while working:



- Wear sturdy boots with non-slip, rubber soles. Do not wear sandals, flip-flops, open-toed or similar footwear.
- To reduce the risk of electric shock:
 - Wear rubber-soled footwear that provides insulation when operating the pressure washer.
- Aqueous aerosols may form while working with a pressure washer. Inhalation of some aerosols can be hazardous. To determine the measures necessary to protect against aqueous aerosols, carry out a risk assessment before starting work. Depending on your risk assessment, class FFP2 or higher respirators may be necessary.

5.5 Pressure Washer

▲ WARNING

- To reduce the risk of serious or fatal injury from electrocution or electric shock:

- Position the pressure washer outside the wet work area.
- Store the pressure washer indoors.
- Never use your pressure washer if the casing around the motor is cracked or damaged.
- To reduce the risk of personal injury to the operator and bystanders:
 - Always switch off the pressure washer, relieve system pressure, lock the spray gun trigger and disconnect from the power supply before assembling, inspecting, cleaning, maintaining or servicing the pressure washer.
- Although certain unauthorized attachments may fit your STIHL pressure washer, their use may be extremely dangerous. Only attachments supplied by STIHL or expressly approved by STIHL for use with this specific model are recommended.
 - Use only attachments supplied or expressly approved by STIHL.
 - Never modify this pressure washer in any way.
 - Never attempt to modify or override the pressure washer's controls or safety devices in any way.
 - Never use a pressure washer that has been modified or altered from its original design.
- If the pressure washer is dropped or subjected to similar heavy impacts:
 - Check that it is undamaged, in good condition and functioning properly before continuing work.
 - Check that the controls and safety devices are working properly.
 - Check that the power supply cord has not been damaged.
 - Never work with a damaged or malfunctioning pressure washer. In case of doubt, have the pressure washer checked by your authorized STIHL servicing dealer.
- If the pressure washer is damaged, not working properly, has been left outdoors or exposed to rain, its components may no longer function properly and safety devices may be inoperative. To reduce the risk of personal injury and property damage:
 - Take the pressure washer to your authorized STIHL servicing dealer to be checked before further operation.
- Genuine STIHL replacement parts are specifically designed to match your pressure washer and meet safety and performance requirements. Use of parts that are not authorized or

approved by STIHL may cause serious or fatal injury or property damage.

- STIHL recommends that only identical STIHL replacement parts be used.

5.6 Power Supply Cord

▲ WARNING

- Using a damaged power supply cord or plug may result in fire, electric shock and other personal injury or property damage. To reduce these risks:



- Check the pressure washer's power supply cord or plug regularly for damage. If it becomes damaged, disconnect the pressure washer from the power supply. Never use a damaged power supply cord or plug.
- Do not abrade, crush, jerk, or otherwise abuse or misuse the power supply cord. Protect it from heat, oil and sharp edges.
- If the power supply cord becomes damaged, have it replaced by an authorized STIHL servicing dealer before use. A damaged power supply cord must be replaced with an identical STIHL replacement part.
- Unplug the power supply cord when the pressure washer is not in use.
- Never yank or jerk the power supply cord to disconnect. To unplug, grasp the plug, not the power supply cord.
- Make sure the power supply cord is positioned and secured or marked so that it will not be stepped on, tripped over, come in contact with sharp objects, moving parts, or otherwise be subjected to damage or stress.
- Connect to individual branch circuit only. An individual branch circuit is an electric circuit designed for powering a single electric device. Running several devices on one electrical circuit may lead to an overload and cause the circuit breaker or fuse to trip.
- This pressure washer is equipped with an integrated Ground Fault Circuit Interrupter (GFCI). To reduce the risk of electric shock:
 - Never plug the power supply into a power strip or extension cord.
 - The pressure washer must be connected to a properly grounded electrical outlet. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.
 - Always test the built-in GFCI before using the pressure washer. Never work with a malfunctioning GFCI. For information on

testing and resetting the GFCI, see chapter 10.

- This power tool has a polarized plug (one blade is wider than the other). This plug will fit in a polarized electrical outlet only one way. To reduce the risk of electric shock:
 - Do not change the plug in any way.
 - If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, use a different outlet or contact a qualified electrician to install the proper outlet.

5.7 Batteries

▲ WARNING

- Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
- This pressure washer is designed for use with properly inserted AAA batteries only. Do not attempt to use other batteries or an electrical power supply.
- Use with unauthorized batteries can result in fire, explosion, or leakage of battery fluid.
- Ensure the cover on the operating unit is closed securely.
 - If the operating unit cover will not remain closed, remove the batteries and discontinue use. Properly dispose of the batteries.
- Risk of fire and explosion.
 - Never attempt to re-charge the batteries.
 - Never heat the batteries above 212 °F (100 °C) or place it in or near fires, stoves or other high-temperature locations.
 - Do not crush or expose to microwaves.
- High temperatures may cause the batteries to generate heat, rupture, leak, ignite or explode.
 - Use and store the batteries only within an ambient temperature range of -20 °F to 140 °F (-30 °C to 60 °C).
 - Never store the batteries inside a vehicle in hot weather.
- Risk of short circuit, which could lead to rupture, fire or explosion.
 - Keep the batteries dry.
 - Never bridge the terminals with wires or with paper clips, coins, keys, nails or other metallic objects that can make a connection from one terminal to another.
 - Never carry the batteries in your pocket.
- Leaking battery fluid can cause skin and eye irritation or chemical burns.
 - Never attempt to open or dis-assemble the batteries. In the event of leakage, avoid contact with skin and eyes.

- Clean up spilled fluid with an inert absorbent such as sand or an absorbent cloth.
- Avoid skin and eye contact with battery fluid. Avoid vapor generated from leaking or burning batteries.
 - Rinse affected skin thoroughly with mild soap and water.
 - Flush eyes with clean water for 15 minutes without rubbing.
 - Seek medical attention.
- Handle discharged/depleted batteries carefully.
 - Keep away from children.
 - Properly dispose of batteries immediately at the end of their useful life. Never dispose of batteries with household waste.
 - Observe all federal, state and local disposal rules and regulations.
- Use the pressure washer only as described in this instruction manual.
- Using a pressure washer that is modified, damaged, improperly adjusted or maintained, or not completely and securely assembled can lead to a malfunction and increase the risk of serious personal injury or death.
 - Never operate a pressure washer that is modified, damaged, improperly maintained or not completely and securely assembled.
 - Always check your pressure washer for proper condition and operation before starting work, particularly the spray gun trigger, trigger switch and retaining latch.
 - Ensure that the spray gun trigger, trigger switch and retaining latch move freely. The spray gun trigger must not engage until the retaining latch is moved to the unlocked position.
 - Never attempt to modify or override the controls or safety devices in any way.
 - If your pressure washer or any part is damaged or does not function properly, take it to your authorized STIHL servicing dealer. Do not use the pressure washer until the problem has been corrected.

5.8 Connecting the Water Supply

▲ WARNING

- When the spray gun trigger is released, fluid recoil may push non-potable water back into the potable water system.
 - Do not connect the pressure washer directly to a potable water system.
 - If hooking up the pressure washer to a potable water system, a backflow preventer must be installed between the water tap and the hose. The design of the backflow preventer must comply with all applicable water management codes and regulations in your area.
- If potable water has passed through the backflow preventer, it can no longer be regarded as potable water. To prevent contamination of potable water:
 - Follow the rules laid down by the local water supply company to prevent water flowing back from the pressure washer into the drinking water main.
 - Do not use the pressure washer with dirty water (i.e., water that contains sand, dirt or other particulate matter). If there is a risk that the water supply is dirty, use an appropriate water filter or find an alternative water source.
- Before connecting the pressure washer to the power supply:
 - Read and follow the instructions on switching on the pressure washer, 11.1.
 - Ensure that the high-pressure hose is in good condition and not frayed, cracked, deformed or damaged in any way. Never operate the machine with a damaged or worn high-pressure hose.
- To help reduce the risk of serious personal injury or death from unintentional starting:
 - Never carry the pressure washer with your finger on the spray gun trigger.
 - Switch off the pressure washer, relieve system pressure, lock the spray gun trigger and disconnect from the power supply before assembling, inspecting, cleaning, maintaining or servicing the pressure washer.
 - Always switch off the pressure washer, relieve system pressure and lock the spray gun trigger before attempting to remove the high pressure hose or spray lance from the spray gun.
 - Always switch off the pressure washer, relieve system pressure and lock the spray gun trigger before attempting to adjust or change a spray nozzle or other accessory.
 - Never leave the pressure washer unattended when it is connected to the power supply.

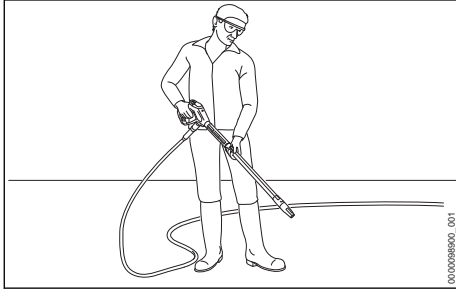
5.9 Using the Pressure Washer

5.9.1 Before Operation

▲ WARNING

- Misuse or unauthorized use may result in personal injury and property damage.

5.9.2 Holding and Controlling the Pressure Washer



▲ WARNING

- To maintain a firm grip and properly control your pressure washer:
 - Keep the spray attachment clean at all times. Keep it free of pitch, oil, grease and resin.
- To reduce the risk of serious or fatal injuries to the operator or bystanders from loss of control:
 - Always hold the spray attachment firmly with both hands when you are working.
 - Wrap your fingers tightly around the spray gun and spray lance.
 - Position the spray attachment in such a way that all parts of your body are clear of the water jet.
 - Position the power supply cord so that it will not be damaged while working with the pressure washer.
 - Always keep the power supply cord behind the operator and away from the water jet. Don't let the power supply cord become entangled with obstacles or objects.
- Operating the pressure washer with one hand is extremely dangerous. One-handed operation makes it difficult to oppose and absorb reactive forces (recoil) without losing control of the pressure washer. To reduce the risk of serious or fatal injury to the operator or bystanders from loss of control:
 - Never attempt to operate the pressure washer with one hand.
- Because of the high pressure and spray velocity, fluids can penetrate the skin and cause fluid injection and/or severe injury. To reduce the risk of serious or fatal injuries to the operator or bystanders from loss of control, keep proper footing and balance at all times:
 - Take special care in overgrown or wet terrain and always watch for hidden obstacles

such as tree stumps, roots, rocks, holes and ditches to avoid stumbling or falling.

- Know where the power supply cord and water hoses are at all times to avoid tripping or stumbling.
- Be extremely cautious when working on slopes or uneven ground.
- To reduce the risk of injury from loss of control:
 - Never work on a ladder, roof, in a tree or while standing on any other insecure support.
 - Never operate the pressure washer above shoulder height.
 - Do not overreach. Keep proper footing and balance at all times.

5.9.3 Working Conditions

▲ WARNING

- Operate your pressure washer only under good visibility during favorable daylight conditions.
 - Postpone the work if the weather is windy, foggy, rainy or inclement.
- Your pressure washer is a one-person machine.
 - Do not allow other persons in the general work area.
 - Bystanders, especially children, and animals should not be allowed in the area where it is in use.
 - Switch off the motor immediately if you are approached.
- To reduce the risk of injury to the operator, bystanders and unauthorized users:
 - Never leave the pressure washer unattended when it is connected to the power supply.
 - Switch off the pressure washer and disconnect from the power supply during work breaks and any other time the pressure washer is not in use.
- Sparks generated from the operation of the pressure washer may be capable of igniting combustible gases, liquids, vapors, dusts or other combustible materials and substances. To reduce the risk of fire and explosion:
 - Never operate the pressure washer in a location where combustible gases, liquids, vapors, dusts or other combustible materials and substances are present.
 - Read and follow recommendations issued by government authorities (e.g., OSHA) for identifying and avoiding the hazards of combustible gases, liquids, vapors, dusts or

other combustible materials and substances.

- Spraying certain materials with the water jet may produce dust or a mist containing particulate matter capable of causing respiratory disease, cancer, birth defects and other serious harm.
 - Never spray any surface containing lead paint.
 - Never spray asbestos-containing materials such as asbestos cement or asbestos siding. Hazardous, breathable asbestos fibers may be released in addition to the dirt.
 - Consult governmental agencies such as EPA, OSHA, CARB and NIOSH and other authoritative sources on hazardous materials if you are unfamiliar with the risks associated with the particular substances you are spraying.
- Inhalation of certain dusts, especially organic dusts such as mold or pollen, can cause susceptible persons to have an allergic or asthmatic reaction. Substantial or repeated inhalation of dust or other airborne contaminants, especially those with a smaller particle size, may cause respiratory or other illnesses.
 - Control dust and mists at the source where possible.
 - To the extent possible, operate the pressure washer so that the wind or operating process directs any dust, mist or other particulate matter raised by the pressure washer away from the operator.
 - When respirable dust or other particulate matter cannot be kept at or near background levels, always wear a respirator that is approved by NIOSH and rated for work-site-specific conditions. Follow the recommendations of governmental authorities (e.g., OSHA/NIOSH and occupational and trade associations).
- Breathing asbestos dust is dangerous and can cause severe or fatal injury, respiratory illness or cancer, including mesothelioma. The use and disposal of asbestos-containing products is strictly regulated by OSHA and EPA.
 - Stop work immediately and contact the relevant state and local authorities and/or EPA, your employer or local OSHA representative if you have reason to believe that you might be disturbing asbestos.
- Switch off the motor immediately and disconnect the pressure washer from the power supply.
- To reduce the risk of fire/explosion resulting in serious or fatal injury or property damage:
 - Never spray flammable or combustible liquids.
 - Never draw fluids into the pump that contain solvents or undiluted acids (e.g., gasoline, heating oil, paint thinner or acetone).
- Because of the high pressure and spray velocity, fluids can penetrate the skin and cause fluid injection and/or severe injury.
 - Never direct the high-pressure jet toward yourself or other persons, not even to clean clothing or shoes.
 - Do not direct the high-pressure jet toward animals.
 - Keep hands, feet and other parts of your body away from the water jet at all times.
 - Do not direct the high-pressure jet into places you cannot see.
 - Switch off the pressure washer, relieve system pressure and lock the spray gun trigger before changing or adjusting any spray nozzle or accessory.
 - If an accident does occur and the spray appears to have penetrated the skin, seek emergency medical care. Do not treat as a simple cut.
- To reduce the risk of property damage or serious personal injury:
 - Start work at the greatest effective distance from the surface being cleaned. Do not move so close that the surface is damaged by the force of the spray.
 - Be especially careful when spraying softer materials such as fabric.
 - Use caution when directing spray toward fragile materials such as glass. It could shatter.
- This pressure washer was designed for use with water alone or with a detergent specifically designed and approved for use with pressure washers. Use of unsuitable detergents or cleaning agents can cause personal injury and damage the pressure washer and/or the surface being cleaned.



5.9.4 Operating Instructions

▲ WARNING

- In the event of an emergency:

- Always use the detergent in the dosage specified in the detergent manufacturer's instructions for proper preparation and dilution, as well as safe use and disposal.
- Chemical detergents may contain harmful (toxic, caustic, irritant), flammable or explosive substances. They are potentially harmful and can cause skin and eye irritation, chemical burns and other serious personal injury.
 - Avoid contact with skin and eyes.
 - In the event of accidental contact, immediately rinse the contact area thoroughly with plenty of clean water.
 - If fluid gets into your eye(s): Do not rub. Rinse water over the open eye(s) for at least 15 minutes and seek medical attention.
- Running the pressure washer without water will cause the pump to overheat, which may result in permanent damage.
 - Always connect and turn on the water supply to the pump before starting the motor.
 - Do not operate the pressure washer without water.
- STIHL recommends that all repair work be performed by authorized STIHL servicing dealers.
- Unintentional starting may result in personal injury or property damage. To reduce the risk of personal injury and property damage from unintentional starting:
 - Switch off the pressure washer, disconnect it from the power supply, turn off the water supply and squeeze the spray gun trigger until the pressure in the system has been fully released. Then, lock the spray gun trigger before inspecting the pressure washer or carrying out any cleaning, maintenance or repair work, before storing, and any other time it is not in use.
- Use of parts that are not authorized or approved by STIHL may cause serious or fatal injury or property damage.
 - STIHL recommends that only identical STIHL replacement parts be used for repair or maintenance.
 - If using a replacement or accessory high-pressure hose, ensure that it is rated for the maximum PSI of the pressure washer.
 - If using a replacement spray gun or lance, or any other spray accessory, ensure that it is rated for the maximum PSI of the pressure washer.

▲ WARNING

- To reduce the risk of short-circuiting, fire and electrocution:
 - Never direct the high-pressure jet toward the pressure washer itself or any of its components.



- Never direct the spray at electrical appliances and equipment, sockets or power cords.



- Never spray near electrical outlets or other power sources.
- Never use your pressure washer if the casing around the motor is cracked or damaged.

6 Maintenance, Repair and Storage

6.1 Warnings and Instructions

▲ WARNING

- To reduce the risk of fire, electric shock or other personal injury and property damage:
 - Strictly follow the cleaning and maintenance instructions in the appropriate sections of this instruction manual.

MOVING AND STORAGE INSTRUCTIONS

▲ WARNING

- Improper storage can result in unauthorized use, damage to the pressure washer and an increased risk of fire, electric shock and other personal injury or property damage.
 - Disconnect the pressure washer from the power supply before storing.
 - Never store the pressure washer with the plug of the power supply cord connected to an electrical outlet.
 - Store the pressure washer indoors in a dry, secure place that cannot be accessed by children or other unauthorized users.



- Drain the detergent spray set or secure it so that it cannot topple over or spill.



- Do not allow the unit to be used or stored in freezing temperatures.
- If the pressure washer must be transported or stored in freezing conditions, the pump must be filled with antifreeze to prevent cracking due to water expansion, 13.2.

SAVE THESE INSTRUCTIONS!

7 Before Starting Work

7.1 Preparing the Pressure Washer for Operation

Before starting work:

- ▶ Place the pressure washer on flat and firm ground or other solid surface in an open area.
- ▶ Connect the spray gun and lance, 8.4.1.
- ▶ Insert the spray nozzle, 8.5.1.
- ▶ If desired, add detergent, 12.6.
- ▶ Connect the water supply, 9.1.
- ▶ Connect the power supply cord to a properly installed electrical outlet that matches the voltage and electrical frequency stated on the pressure washer's rating plate. Connect to an individual branch circuit only.
- ▶ Test the ground fault circuit interrupter (GFCI), 10.1

7.2 Pairing the Pressure Washer to the Spray Attachment for the first time

- ▶ If no batteries are installed within the operating unit: Install new batteries, 8.2.
- ▶ Press any button on the control panel. The LEDs on the control panel light up.
- ▶ Press and hold the constant working pressure button.
After about 5 seconds, the connection status LED starts to flash.
- ▶ Set the power switch to the I position.
After about 5 seconds, the connection status LED will light up. The pressure washer and the spray attachment are paired and connected.

8 Assembling the Pressure Washer

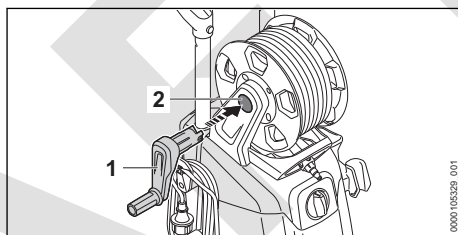
8.1 Assembling Parts and Accessories



WARNING

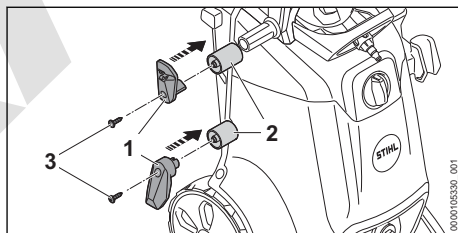
- To reduce the risk of severe injury from high-pressure spray, always switch off the pressure washer, shut off the water supply, relieve any remaining pressure in the system and lock the spray gun trigger before attempting to assemble the pressure washer or spray attachment.

Crank handle



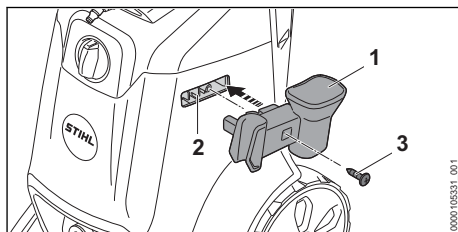
- ▶ Push the crank handle (1) into the bracket (2). The crank handle engages with an audible click.

Brackets



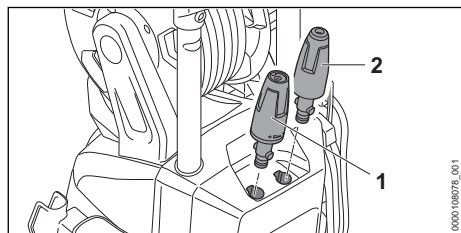
- ▶ Insert the brackets (1) into the mounts (2).
- ▶ Insert the screws (3) and tighten.

Holder for Spray Attachment



- ▶ Insert the holder (1) into the mount (2).
- ▶ Insert the screw (3) and tighten.

Nozzles

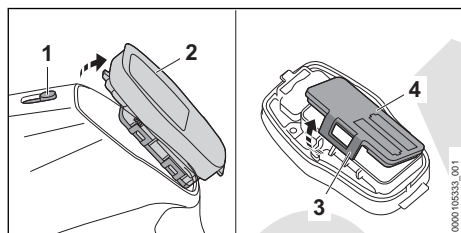


- Insert the fan-jet nozzle (1) and rotary-jet nozzle (2).

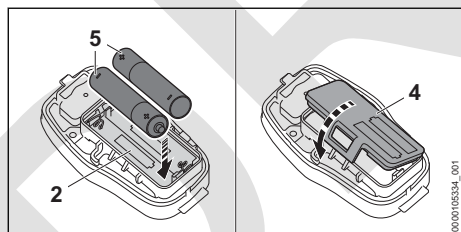
8.2 Installing the Batteries

The Battery Status LED on the control panel lights up, if the batteries of the operating unit have to be replaced.

- If the Battery Status LED lights up: Install new batteries.



- Press the release slider (1).
- Remove operating unit (2).
- Open the snap-in nose (3) with a suitable tool.
- Remove the cover (4).

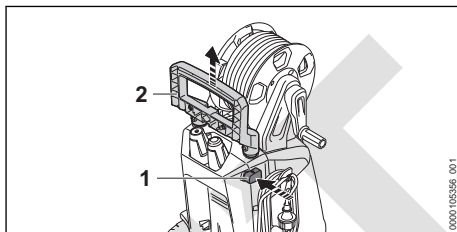


- Insert the batteries (5) into the operating unit (2) according to the polarity- (+/-).
- Align the cover (4) with the snap-in noses.
- Close cover (4).
The cover engages with an audible click.
- Insert the operating unit into the spray gun.
The operating unit engages with an audible click.

8.3 Adjusting the Handle

8.3.1 Pulling out the Handle

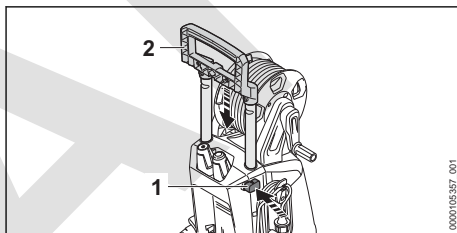
To pull out the handle:



- Press the release button (1) and pull out the handle (2).
- Release the release button (1) and pull out the handle (2) until it audibly engages.

8.3.2 Pushing in the Handle

To push in the handle:



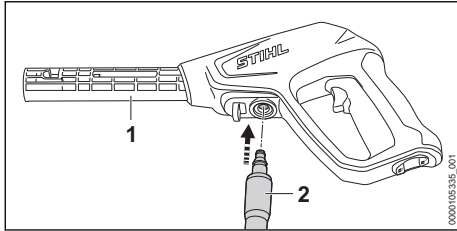
- Press the release button (1) and push in the handle (2).
- Release the release button (1) and push in handle (2) until it audibly engages.

8.4 Spray Gun and Lance

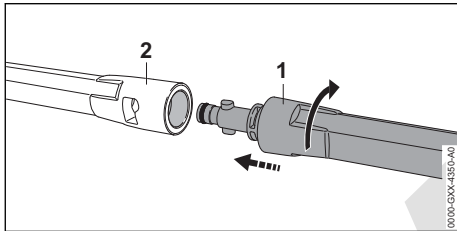
8.4.1 Connecting the Spray Gun and Lance

To connect the spray gun and lance:

- Switch off the pressure washer, 11.2.
- Disconnect the pressure washer from the power supply.
- Shut off the water supply.
- Lock the spray gun trigger.
- Remove all sand and debris from the connections and couplings.



- ▶ Push the high-pressure hose (2) into the spray gun (1).
- ▶ If the high-pressure hose is difficult to push into the spray gun, apply a food-safe fitting grease to the sealing surface on the high pressure hose.



- ▶ Attach the spray lance (1) to the spray gun (2).
- ▶ Push the spray lance as far as it will go into the spray gun.
- ▶ Once inserted, turn the spray lance clockwise until it engages.
- ▶ If the spray lance is difficult to insert into the spray gun, apply a food-safe fitting grease to the sealing surface on spray gun.

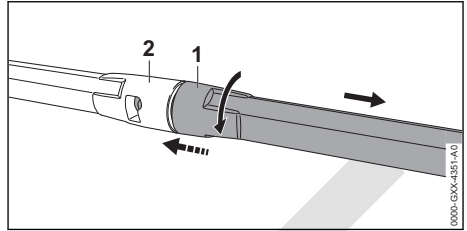
8.4.2 Removing the Spray Gun and Lance

WARNING

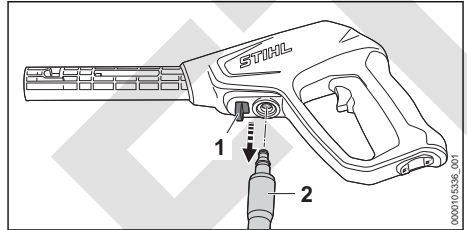
- To reduce the risk of severe injury from high-pressure spray, always switch off the pressure washer, shut off the water supply, relieve any remaining pressure in the system and lock the spray gun trigger before attempting to remove or disassemble the spray gun or lance.

To remove the spray gun and lance:

- ▶ Switch off the pressure washer,  11.2.
- ▶ Disconnect the pressure washer from the power supply.
- ▶ Shut off the water supply.
- ▶ Pull the spray gun trigger to relieve pressure.
- ▶ Lock the spray gun trigger.



- ▶ Press the spray lance (1) against the spray gun (2) and pull out the spray lance.



- ▶ Press down and hold the locking lever (1).
- ▶ Pull out the high-pressure hose (2).

8.5 Inserting and Removing the Spray Nozzle

8.5.1 Inserting the Spray Nozzle

WARNING

- To reduce the risk of severe injury from unintended spraying, switch off the pressure washer, relieve system pressure and lock the spray gun trigger before attempting to adjust or change a spray nozzle or other accessory.

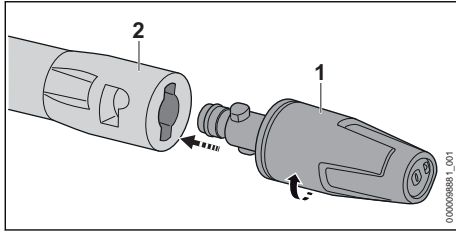
WARNING

- If the high-pressure nozzle is not secure, it can fly out of the spray lance during operation and cause injury. Confirm that the nozzle is fixed securely in the quick-connect coupling.

The pressure washer is offered with two high-pressure nozzles that can be connected to the spray lance.

To insert the spray nozzle:

- ▶ Switch off the pressure washer,  11.2.
- ▶ Pull the spray gun trigger to relieve pressure.
- ▶ Lock the spray gun trigger.
- ▶ Remove all sand and debris from the connections and couplings.



- ▶ Attach the high pressure nozzle (1) to the spray lance (2).
- ▶ Push the high pressure nozzle (1) as far as it will go into the spray lance (2).
- ▶ Once inserted, turn the high pressure nozzle clockwise until it engages.
- ▶ If the high pressure nozzle is difficult to insert into the spray lance, apply a food-safe fitting grease to the sealing surface on spray lance.

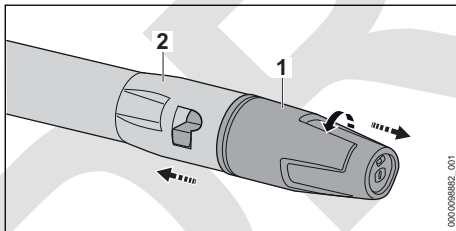
8.5.2 Removing the Spray Nozzle

WARNING

- To reduce the risk of severe injury from unintended spraying, switch off the pressure washer, relieve system pressure and lock the spray gun trigger before attempting to adjust or change a spray nozzle or other accessory.

To remove the spray nozzle:

- ▶ Switch off the pressure washer,  11.2.
- ▶ Pull the spray gun trigger to relieve pressure.
- ▶ Lock the spray gun trigger.



- ▶ Press the high pressure nozzle (1) against the spray lance (2) and pull out the nozzle(1).

9 Connecting the Water Supply

9.1 Connecting the Pressure Washer to the Mains Water Supply

WARNING

- Make sure the pressure washer is switched off and disconnected from the power supply before connecting to or disconnecting from the mains water supply.

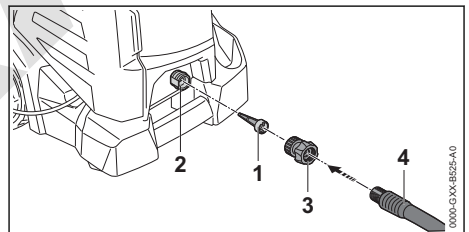
Connecting the Water Supply

The water supply must meet the following requirements:

- Minimum length of water hose: 30 ft. (10 m)
- Maximum water inlet pressure: 145 psi (1 MPa / 10 bar)

To connect the pressure washer to the mains water supply:

- ▶ Switch off the pressure washer,  11.2.
- ▶ Disconnect the pressure washer from the power supply.
- ▶ Remove all sand and debris from the connections and couplings.
- ▶ Connect the water hose to the water supply.
- ▶ Fully open the tap to flush any sand or dirt from the hose.
- ▶ Shut off the water supply.



- ▶ Insert the water inlet strainer (1) into the connector (2).
- ▶ Screw the coupling (3) onto the connector and tighten by hand.
- ▶ Connect the water hose (4).
- ▶ If the spray lance is attached to the spray gun, remove the spray lance.
- ▶ Turn on the water supply.
- ▶ Pull the spray gun trigger until a steady, even water jet is delivered from the spray gun.
- ▶ Switch off the pressure washer.
- ▶ Lock the spray gun trigger.
- ▶ Connect the spray lance.
- ▶ Insert the nozzle,  8.5.1.

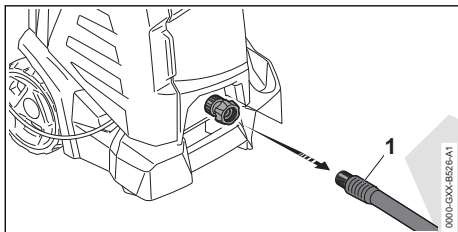
NOTICE

- Running the pressure washer without water will cause the pump to overheat, which may result in permanent damage. Always connect and turn on the water supply to the pump before starting the motor. Do not operate the pressure washer without water.

Disconnecting the Water Hose

To disconnect the water hose:

- ▶ Switch off the pressure washer,  11.2.
- ▶ Disconnect the pressure washer from the power supply.
- ▶ Shut off the water supply.
- ▶ Pull the spray gun trigger to relieve pressure.
- ▶ Lock the spray gun trigger.



- ▶ Remove the water hose (1).

10 Ground Fault Circuit Interrupter (GFCI)

10.1 Testing the GFCI

**WARNING**

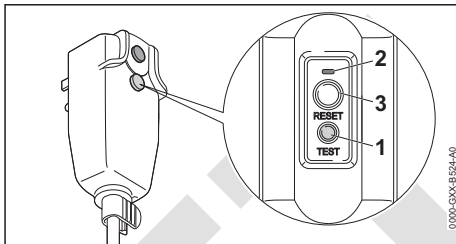
- To reduce the risk of electrocution, always test the GFCI each time you plug in your unit and before you start work.

The pressure washer has an electrical protection mechanism. The GFCI is an important safety device that is intended to protect the operator and bystanders from the risk of electric shock or electrocution. It is designed to quickly and automatically disconnect a circuit when it detects that the electric current is not balanced.

A GFCI does not provide protection against unexpected or dangerously high current. Therefore it cannot replace a fuse or protect against overheating or fire risk due to over-current (overload) or short circuits if the fault does not lead to current leakage.

To test the GFCI:

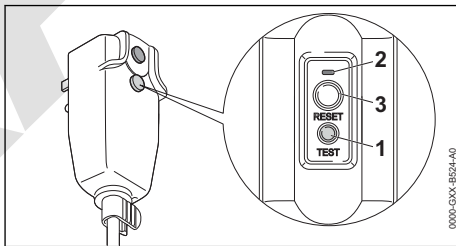
- ▶ Connect the power supply cord to a properly installed electrical outlet that matches the voltage and electrical frequency stated on the pressure washer's rating plate. A red indicator plate inside the window (2) will become visible.



- ▶ Depress the TEST button (1). The red indicator plate inside the window (2) should not be visible anymore.
- ▶ If the indicator plate remains visible after depressing the TEST button, the GFCI is not working. Disconnect the pressure washer from the power supply and have it inspected by an authorized STIHL servicing dealer before further use.
- ▶ Before starting work, always reset the GFCI as described in chapter  10.2.

10.2 Resetting the GFCI

To reset the GFCI:



- ▶ If depressing the TEST button has interrupted the current and the red indicator plate inside the window (2) is no longer visible, depress the RESET button (3). The indicator plate should become visible again.
- ▶ If the indicator plate is not visible after depressing the RESET button, the GFCI is not working. Disconnect the pressure washer from the power supply and have it inspected by an authorized STIHL servicing dealer before further use.

11 Switching the Pressure Washer On and Off

11.1 Switching On



WARNING

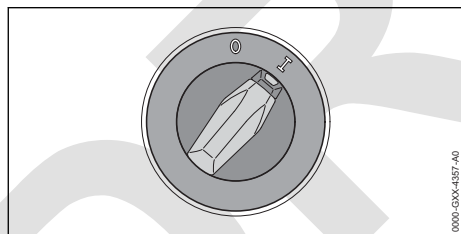
- Never operate your pressure washer if it is damaged, improperly adjusted or maintained, not completely and securely assembled or not functioning properly, 5.5. To reduce the risk of personal injury, always wear proper clothing and protective apparel, including proper eye protection, when operating your pressure washer, 5.4.

Before switching on:

- Make sure you have a secure and firm footing.
- Stand upright.
- Always hold and operate the pressure washer with one hand firmly on the spray gun and your other hand firmly on the spray lance. Always hold the pressure washer with two hands in this manner.

When the pressure washer is switched on, the spray attachment and pressure washer are connected automatically. If the pressure washer and spray attachment are not connected, no working pressure can be set and no detergent can be applied.

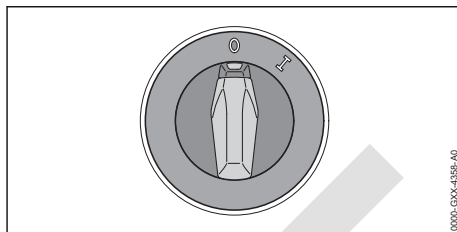
To switch the pressure washer on:



- Set the power switch to the **I** position.
- Press any button on the control panel. After about 5 seconds, the connection status LED lights up. The pressure washer and spray attachment are connected.
- If the connection status LED does not light up after 5 seconds: Pair the pressure washer to the spray attachment, 7.2.

11.2 Switching Off

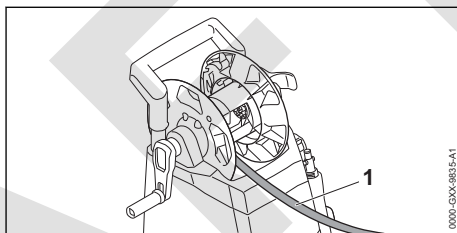
To switch the pressure washer off:



- Set the switch to the **0** position.

12 During Operation

12.1 Unrolling the High-Pressure Hose



- Completely unroll the high-pressure hose (1).

NOTICE

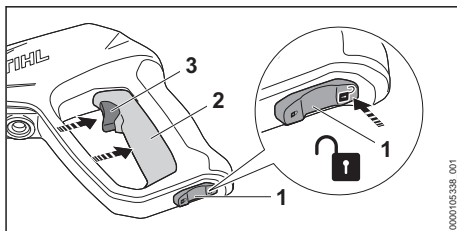
- Remove the high-pressure hose from the hose reel before spraying. If the high-pressure hose is not completely unrolled from the hose reel, it may be damaged by high-pressure.

12.2 Activating and Locking the Spray Gun Trigger and Trigger Switch

The pressure washer is designed for two-handed operation.

Activating the spray gun trigger and trigger switch

To pull the spray gun trigger and trigger switch:

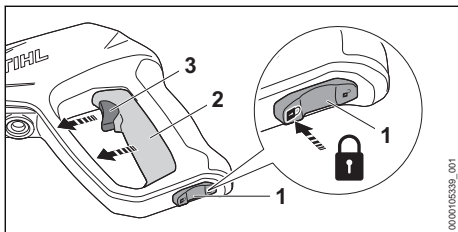


- Slide the retaining latch (1) to the **I** position.

- Press and hold the spray gun trigger (2).
The high-pressure pump starts up automatically and water flows out of the nozzle with low pressure.
- Press and hold the trigger switch (3) with your index finger until the desired working pressure is reached.
The pressure increases and water flows out of the nozzle at high pressure.

Locking the spray gun trigger and trigger switch

To lock the spray gun trigger and trigger switch:



- Release the trigger switch (3).
The pressure decreases and water flows out of the nozzle at low pressure.
- Release the spray gun trigger (2).
The high-pressure pump switches off automatically when the spray gun trigger is released. Water stops flowing out of the nozzle but the pressure washer remains switched on.
- Slide the retaining latch (1) to the position to lock the spray gun trigger and trigger switch.

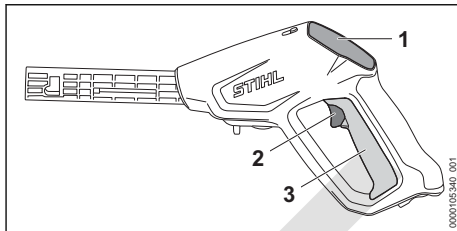
12.3 Setting the Working Pressure

Depending on the application, the working pressure can be set dynamically. The working pressure LED indicates the currently set working pressure. The more LED's light up, the higher the working pressure.

Work can be carried out with high working pressure if stubborn dirt is to be removed.

Low working pressure can be used when removing dirt from sensitive surfaces.

- Switch on pressure washer.
- Press any button on the control panel (1).
The LEDs on the control panel light up.



- Press and hold the spray gun trigger (3).
- Press and hold the trigger switch (2) with your index finger until the desired working pressure is reached.
The working pressure LED shows the current working pressure.
- Release the trigger switch (2) and spray gun trigger (3).

The control panel switches off automatically, if the pressure washer is not used for more than 2 minutes. To re-activate the control panel:

- Press any push button on the control panel.

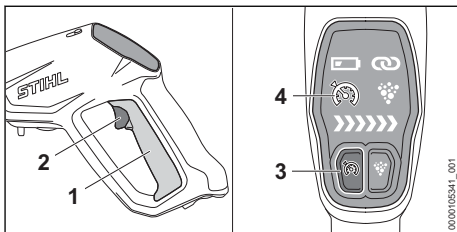
If the batteries inside the operating unit are empty, no working pressure can be set and no detergent can be applied. The pressure washer can still be used at maximum working pressure.

- Switch on pressure washer.
- Press and hold the spray gun trigger (3) and trigger switch (2) to the maximum.
The maximum working pressure is set.
- If the batteries in the operating unit are empty:
Replace the batteries, 8.2

12.4 Enable and Disable Constant Working Pressure

A constant working pressure can be enabled independently of the dynamic working pressure.

- Switch on pressure washer.



- Set the desired working pressure by pressing the spray gun trigger (1) and trigger switch (2).

- ▶ Press the constant working pressure button (3).
Constant working pressure is enabled and the trigger switch can be released. The constant working pressure LED (4) on the control panel lights up.

Before switching of the pressure washer: Disable constant working pressure.

To disable constant working pressure, press the constant working pressure button (3) again.

When constant working pressure is enabled, a temporarily higher working pressure can be set using the trigger switch (2).

- ▶ Press the trigger switch (2) with your index finger until the required working pressure is reached.
- ▶ Release the trigger switch.
The working pressure drops back to the enabled constant working pressure.

12.5 Cleaning

WARNING

- To reduce the risk of personal injury, never work with the pressure washer in the rain,  5.5. Always wear proper clothing and protective apparel, including proper eye protection, when operating your pressure washer,  5.4. Keep bystanders away from the work area,  5.9.4. Work carefully and maintain proper control of the pressure washer,  5.9.2.

WARNING

- To reduce the risk of fluid injection and/or severe injury, keep hands, feet and other parts of your body away from the water jet at all times and never direct the high-pressure jet toward yourself or other persons, not even to clean clothing or shoes,  5.9.4. Do not direct the high-pressure jet toward animals.

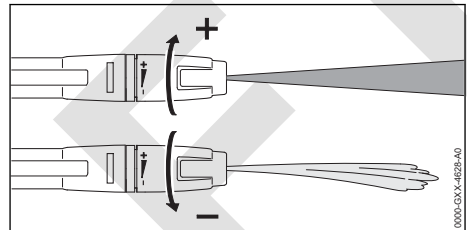
Depending on the application, the following nozzles may be used:

- Fan-jet nozzle: The fan-jet nozzle is designed for cleaning larger areas.
- Rotary-jet nozzle: The rotary nozzle is designed for removing stubborn dirt.
- ▶ If you want to remove stubborn dirt, reduce the distance between the nozzle and the surface.
- ▶ If you want to remove dirt from painted, wooden or other potentially sensitive surfaces, increase the distance between the nozzle and the surface.

To adjust the fan jet nozzle:

WARNING

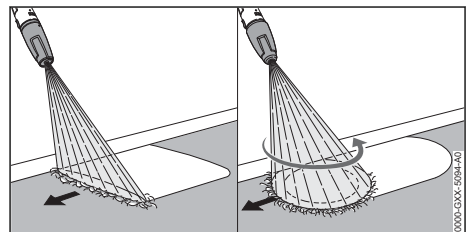
- To reduce the risk of injury from high-pressure spray, always switch off the pressure washer, relieve any remaining pressure in the system and lock the spray gun trigger before attempting to insert, adjust or remove the spray nozzle.
- ▶ Switch off the pressure washer.
- ▶ Relieve system pressure.
- ▶ Lock the spray gun trigger.



- ▶ Rotate the fan-jet nozzle in the (+) direction to increase the working pressure.
- ▶ Rotate the fan-jet nozzle in the (-) direction to reduce the working pressure.

To clean:

- ▶ Before starting work, direct the water jet at an inconspicuous area of the surface and check that the surface is not damaged.
- ▶ Work at a distance that allows you to effectively clean the surface without damaging it.
- ▶ Adjust the fan-jet nozzle and distance from the surface to be cleaned to ensure the surface will not be damaged by the spray.



- ▶ Move the spray attachment evenly along the surface to be cleaned.
- ▶ Move forward slowly in a controlled manner.

12.6 Adding Detergents

WARNING

- Use of unsuitable detergents or cleaning agents can damage the pressure washer or

surface being cleaned and may result in personal injury. Always read and follow the detergent manufacturer's warnings and instructions regarding proper preparation, dilution, safe use and disposal.

Detergents can improve cleaning effectiveness.



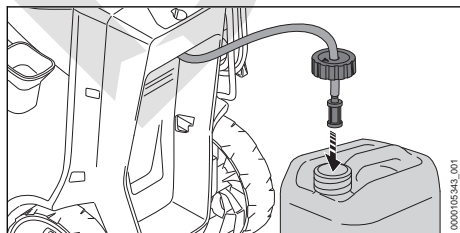
- Pull down the detergent container (1) by its cover (2).
- Unscrew cover (2).
- Use detergent as described in the instructions for use.
- Screw the cover onto the detergent container and tighten it by hand.
- Push the detergent container into the pressure washer. The detergent container engages with an audible click.

12.7 Using a separate Detergent Container

WARNING

- Use of unsuitable detergents or cleaning agents can damage the pressure washer or surface being cleaned and may result in personal injury. Always read and follow the detergent manufacturer's warnings and instructions regarding proper preparation, dilution, safe use and disposal.

The cover of the detergent container uses a standard threading and fits onto common detergent containers. A separate detergent container can be used.



- Pull down the detergent container by its cover.

- Unscrew cover.
- Remove the detergent container.
- Screw the cover onto the separate detergent container and tighten it by hand.

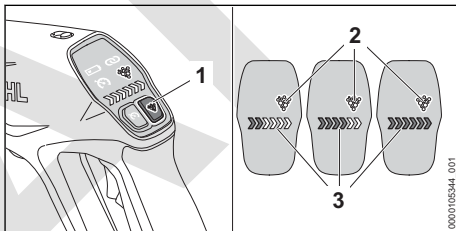
12.8 Adding Detergents

WARNING

- Use of unsuitable detergents or cleaning agents can damage the pressure washer or surface being cleaned and may result in personal injury. Always read and follow the detergent manufacturer's warnings and instructions regarding proper preparation, dilution, safe use and disposal.

Depending on the application, the amount of detergent to be applied can be set in 3 stages. The higher the level, the more detergent is applied.

- Switch on pressure washer.



- Press and hold the detergent button (1). After about 3 seconds, the detergent LED (2) starts to flash. The working pressure LED (3) displays the set amount of detergent.
- Press detergent button until the desired detergent level is set.

After the spray gun trigger is pressed or after about 3 seconds, the control panel will switch over. The working pressure LED displays the set working pressure.

- Always read and follow instructions provided by the manufacturer of the detergent before starting work.
- STIHL recommends soaking surfaces with water before applying detergent
- Press the detergent button (1). The detergent LED (2) lights up.
- Press the spray gun trigger and trigger switch to the maximum. Detergent is drawn in. It can take up to 10 seconds until detergent starts to flow out of the nozzle.
- Spray the detergent onto the surface to be cleaned.

- ▶ When applying detergent, start at the bottom of the surface and work upwards. Do not allow the detergent to dry.
- ▶ Press the detergent button. Cleaning agent is no longer drawn in.

After applying detergent:

- ▶ Spray the surface until it is clean and any remaining detergent is washed away.
- ▶ When rinsing off detergent, start at the top of the surface and work down.

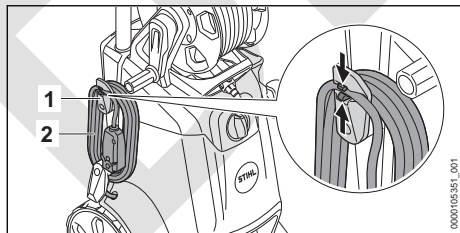
Applying detergent stops automatically after 2 minutes.

13 After Finishing Work

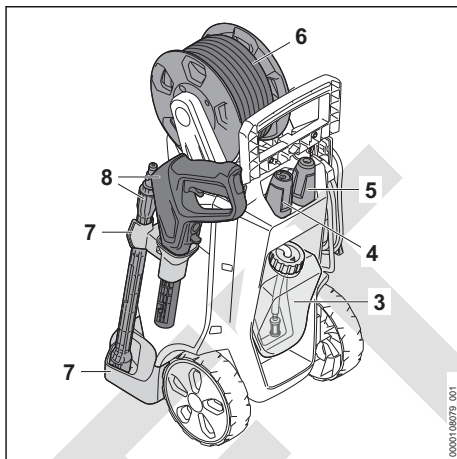
13.1 Preparing for Transportation or Storage

To prepare the pressure washer for transportation or storage:

- ▶ If cleaning agent has been used: flush the pressure washer.
- ▶ Switch off the pressure washer,  11.2.
- ▶ Disconnect the pressure washer from the power supply.
- ▶ Disconnect the pressure washer from the water supply.
- ▶ Press the spray gun trigger to relieve any remaining pressure in the system.
- ▶ Lock the spray gun trigger.
- ▶ Disconnect the water hose.
- ▶ Remove and clean the nozzle and spray lance.
- ▶ Remove the spray gun and let the rest of the water run out of the spray gun.
- ▶ If the pressure washer will be exposed to freezing temperatures, protect it with anti-freeze or take other measures outlined below,  13.2.
- ▶ Clean the pressure washer.



- ▶ Rotate the bracket (1) upwards.
- ▶ Roll up the power supply cord (2) onto the brackets.
- ▶ Secure the power supply cord with the clip.



- ▶ Empty the detergent container (3) and insert it into the pressure washer.
- ▶ Insert the nozzles (4 and 5).
- ▶ Roll up the high-pressure hose (6) evenly.
- ▶ Place the spray attachment (8) in one of the holders (7).

13.2 Protecting the Pressure Washer in Winter Conditions

Removing Water from the System

To remove any remaining water from the system:

- ▶ Switch off the pressure washer,  11.2.
- ▶ Disconnect the pressure washer from the power supply.
- ▶ Shut off the water supply.
- ▶ Relieve system pressure.
- ▶ Disconnect the water hose,  9.1.
- ▶ Drain the water out of the high-pressure hose and water hose.
- ▶ Connect the power supply cord to a properly installed electrical outlet that matches the voltage and electrical frequency stated on the pressure washer's rating plate.
- ▶ Switch on the pressure washer and let the pump run for up to 30 seconds until the water flow stops. Remaining water will be eliminated from the system.
- ▶ Switch off the pressure washer and disconnect it from the power supply.

NOTICE

- Freezing temperatures can damage components of the pressure washer. STIHL recommends storing the pressure washer indoors in

a dry room where it is protected from freezing temperatures. Relieve all system pressure and make sure all water is eliminated from the pump system and hoses before storing.

Protecting the Pressure Washer with Antifreeze

WARNING

- When using antifreeze to protect your pressure washer in winter conditions, observe all warnings and instructions provided by the manufacturer to reduce the risk of environmental contamination or severe personal injury from ingestion.

If the pressure washer is to be exposed to freezing temperatures, it should be protected by a glycol-based antifreeze. The antifreeze prevents water inside the pressure washer from freezing and causing damage to the pressure washer.

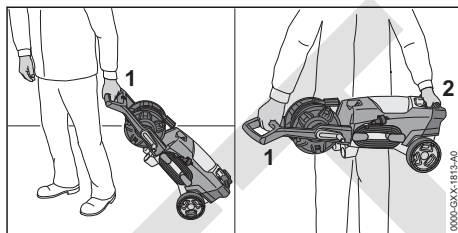
To protect the pressure washer with antifreeze:

- ▶ Drain the water out of the high-pressure hose.
- ▶ Disconnect the spray lance from the spray gun.
- ▶ Connect the shortest possible water hose to the pressure washer. The shorter the water hose, the less antifreeze is needed.
- ▶ Point the spray lance downward and wait until all the water has flowed out of the system.
- ▶ Pour antifreeze into a clean container.
- ▶ Connect a suction hose to the water inlet of the high-pressure pump and place the other end of the hose in the container of antifreeze.
- ▶ Squeeze and hold the spray gun trigger.
- ▶ Press and hold the trigger switch.
- ▶ Switch on the pressure washer.
- ▶ Hold down the spray gun trigger and trigger switch until an even jet of antifreeze is delivered from the spray gun. Keep the spray gun in the container.
- ▶ Press and release trigger switch several times.
- ▶ Switch off the pressure washer and disconnect it from the power supply.
- ▶ Detach the spray gun, high-pressure hose and water hose and allow residual antifreeze to run into the container.
- ▶ Collect and dispose of the antifreeze in accordance with the manufacturer's specifications and all federal, state and local laws, regulations and ordinances.

14 Transporting

14.1 Transporting the Pressure Washer

When transporting the pressure washer:



- ▶ Pull the pressure washer by the pushbar (1), or carry the pressure washer by the pushbar and carrying handle (2).
- ▶ When transporting the pressure washer in a vehicle, ensure that the pressure washer is standing upright, lying on its back, secured with lashing straps, belts or a net and cannot topple over or move.

15 Storing

15.1 Storing the Pressure Washer

WARNING

- Store the pressure washer indoors in a dry, secure place that is inaccessible to children and other unauthorized users,  5.5. Improper storage can result in unauthorized use and damage to the pressure washer,  5.5.

When storing the pressure washer for thirty days or longer:

- ▶ Clean the pressure washer,  16.2.
- ▶ Secure and position the pressure washer to prevent turnover, impact and damage.
- ▶ Store the pressure washer indoors in a dry and secure location, out of the reach of children and other unauthorized persons.
- ▶ If the pressure washer cannot be stored in a room where it is protected from freezing temperatures, protect the pressure washer as outlined above,  13.2.

NOTICE

- Freezing temperatures can damage components of the pressure washer. STIHL recommends storing the pressure washer indoors in a dry room where it is protected from freezing

temperatures. Relieve all system pressure and make sure all water is eliminated from the pump system and hoses before storing.

16 Cleaning

16.1 Flush the Pressure Washer

If cleaning agent has been used:

- ▶ Remove the detergent container and empty it.
- ▶ Collect and dispose of the detergent in accordance with the manufacturer's specifications and all federal, state and local laws, regulations and ordinances.
- ▶ Flush the detergent container with clear water.
- ▶ Insert the detergent container.
- ▶ Set the highest working pressure,  12.3.
- ▶ Switch on pressure washer and flush with clear water for approximately 30 seconds.

16.2 Cleaning the Pressure Washer



WARNING

- Before carrying out any of the cleaning work specified in this chapter  16, take certain measures to reduce the risk of personal injury from unintended activation: switch off the pressure washer and disconnect the unit from the power supply. Relieve all system pressure by pulling the trigger switch and lock the spray gun trigger.

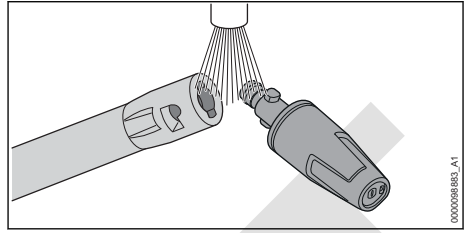
To clean the pressure washer:

- ▶ Clean the pressure washer's polymer components, couplings and connectors with a slightly dampened cloth. Do not use abrasives or solvents that may damage the pressure washer's polymer components.
- ▶ Do not use a pressure washer to clean the unit or otherwise spray it with water or other liquids.

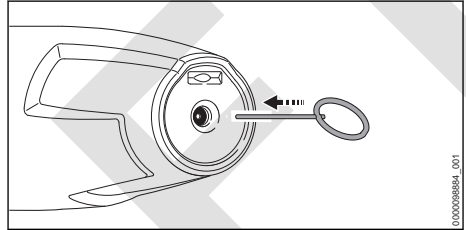
16.3 Cleaning the Nozzle and Spray Lance

A clogged high pressure nozzle can cause excessive pressure to build in the pump. Clean the high-pressure nozzle if it becomes clogged.

To clean the nozzle and spray lance:



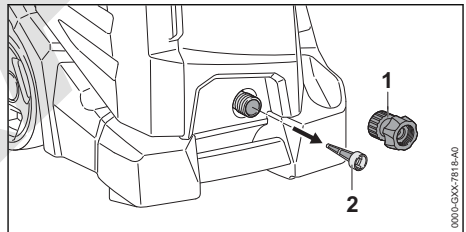
- ▶ Rinse the nozzle and spray lance under running water and dry them with a cloth.



- ▶ If the nozzle is blocked, use the cleaning needle to clear the opening.

16.4 Cleaning the Water Intake Screen

To clean the water intake screen:



- ▶ Unscrew the coupling (1).
- ▶ Pull out the water intake screen (2).
- ▶ Rinse the water intake screen under warm running water.
- ▶ Re-insert the water intake screen.
- ▶ Screw on the coupling and tighten it by hand.

17 Inspection and Maintenance

17.1 Inspection and Maintenance Chart

The following maintenance intervals are examples and apply for normal operating conditions. Actual use and your experience will determine the frequency of required inspection and maintenance.		Before starting work	After finishing work or daily	Weekly	Relevant Chapter
Complete Machine	Visual inspection	X			
	Clean		X		16
Connectors on high-pressure hose	Clean		X		
Coupling on the spray lance and spray gun	Clean	X			16.3
Water intake screen at inlet of high-pressure pump	Clean			X	16.4
High-pressure nozzle	Clean		X		16.3

17.2 Inspecting and Maintaining the Pressure Washer

WARNING

- Before carrying out any of the maintenance work specified in this chapter 6, take certain measures to reduce the risk of personal injury from unintended activation: switch off the pressure washer and disconnect the unit from the power supply. Relieve all system pressure and lock the spray gun trigger.

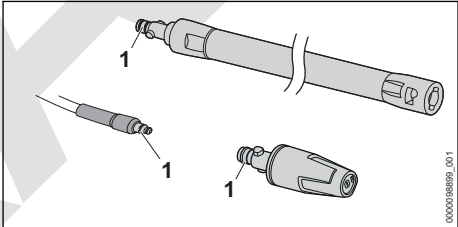
Proper maintenance of the pressure washer includes the following activities:

- Inspecting hoses, couplings, connectors and O-rings periodically and having a worn component replaced.
- Having worn, missing or damaged safety labels replaced by an authorized STIHL servicing dealer.

The pump is pre-filled with pump oil and does not require replacement or maintenance.

17.3 Lubricating the Connections

To lubricate the connections:



- Grease the O-rings (1) with food-safe fitting grease.

18 Troubleshooting Guide

18.1 Pressure Washer

Before troubleshooting, switch off the pressure washer and disconnect the unit from the power supply. Relieve all system pressure by pulling the trigger switch. Lock the spray gun trigger.

Condition	Possible Cause	Remedy
The pressure washer does not start although the spray gun trigger is pulled.	The power supply cord is not connected to an electrical outlet.	► Connect the power supply cord to a properly installed electrical outlet.
	The GFCI has interrupted the electrical circuit.	► Reset the GFCI, 10.2. ► Switch off other loads connected to the same circuit.

Condition	Possible Cause	Remedy
		▶ If the pressure washer still does not start, disconnect the pressure washer from the power supply and have it inspected by an authorized STIHL servicing dealer before further use.
	The electric motor is too warm.	▶ Allow the pressure washer to cool at ambient temperatures for approximately 5 minutes. ▶ Clean the nozzle,  16.3.
The pressure washer does not start when switched on. The electric motor hums.	The mains voltage is too low.	▶ Pull and hold the spray gun trigger and switch on the pressure washer. ▶ Switch off other loads connected to the same electrical circuit.
The pressure washer switches off while in operation.	The power supply cord is not connected to an electrical outlet.	▶ Connect the power supply cord to a properly installed electrical outlet.
	The GFCI has interrupted the electrical circuit.	▶ Reset the GFCI,  10.2. ▶ If the pressure washer still does not start, disconnect the pressure washer from the power supply and have it inspected by an authorized STIHL servicing dealer before further use.
	The electric motor is too warm.	▶ Allow the pressure washer to cool at ambient temperatures for approximately 5 minutes. ▶ Clean the nozzle,  16.3.
The high-pressure pump repeatedly switches on and off without pulling the spray gun trigger.	There is a leak in the high-pressure pump, high-pressure hose or spray attachment.	▶ Have the pressure washer inspected and repaired by an authorized STIHL servicing dealer.
The working pressure fluctuates or drops.	There is not enough water.	▶ Open the water tap fully. ▶ Make sure that a sufficient quantity of water is available.
	The nozzle is blocked.	▶ Clean the nozzle,  16.3.
	The water intake screen is blocked.	▶ Clean water intake screen,  16.4.
	The high-pressure pump, high-pressure hose or spray attachment is leaking.	▶ Ask a STIHL servicing dealer to inspect the pressure washer.
The working pressure can not be set.	The batteries in the operating unit are empty.	▶ Install new batteries in the operating unit,  8.2.
	The pressure washer and operating unit are no longer connected.	▶ Switch off the pressure washer. ▶ Connect the pressure washer and spray attachment,  7.2.
The shape of the water jet has changed.	The nozzle is blocked.	▶ Clean the nozzle,  16.3.
	The nozzle is worn.	▶ Insert a new nozzle.
Detergent is not being drawn in.	The detergent container is empty.	▶ Fill the detergent container with detergent.
	The intake screen inside the detergent container is blocked.	▶ Clean the intake screen with water.
Detergent is not applied.	The batteries in the operating unit are empty.	▶ Install new batteries in the operating unit,  8.2.
	The pressure washer and operating unit are no longer connected.	▶ Switch off the pressure washer.

Condition	Possible Cause	Remedy
		► Connect the pressure washer and spray attachment, 7.2.
The connections of the pressure washer, high-pressure hose, spray gun or spray lance are stiff.	The O-rings of the connections have not been greased.	► Grease the O-rings. 17.3
The battery status LED is lit.	The batteries in the operating unit are empty.	► Install new batteries in the operating unit, 8.2. ► If the LED's still flicker or do not light up: Have the pressure washer inspected and repaired by an authorized STIHL servicing dealer
The LED's on the control panel flicker or do not light up.	The batteries in the operating unit are empty.	► Install new batteries in the operating unit, 8.2.
The connection status LED is not lit.	The pressure washer and operating unit are no longer connected.	► Switch off the pressure washer. ► Reduce the distance between the spray attachment and the pressure washer.
	The pressure washer and operating unit are no longer connected and the connection can not be reestablished.	► Hochdruckreiniger ausschalten. ► Switch off the pressure washer. ► Connect the pressure washer and spray attachment, 7.2.

19 Specifications

19.1 STIHL RE 140.0 VARIO CONTROL

For household use.

- Weight with spray attachment and high-pressure hose: approximately 40.2 lbs (18.2 kg).

Electrical

- Fuse (characteristic "C" or "D" based on UL 489): 15 A
- Mains voltage: 120 V
- Frequency: 60 Hz
- Rated current: 12.5 A
- Insulation: Class I (Protective Earthing)
- Approved batteries: AAA batteries (IEC size LR03)
- Frequency band: SRD band 915 MHz
- Signal range: approx. 100 ft (30 m). The signal strength depends on the ambient conditions

High-Pressure Pump

- Rated Pressure: 2100 psi (14.5 MPa / 145 bar)
- Maximum Pressure: 2600 psi (18 MPa / 180 bar)
- Minimum water throughput: 1.2 gpm (4.5 l/min)
- Maximum water throughput: 1.4 gpm (5.3 l/min)

- Maximum suction height from a tank: 1.6 ft. (0.5 m)
- Maximum water temperature in pressure mode: 104 °F (40 °C)

Water Supply

- Minimum length of water hose: 30 ft. (10 m)
- Minimum pressure: 14.5 psi (0.1 MPa / 1 bar)
- Maximum water inlet pressure: 145 psi (1 MPa / 10 bar)
- Maximum water temperature: 104 °F (40 °C)

Pressure-dependent data were measured at an inlet pressure of 0.3 MPa (44 psi).

19.2 Symbols on the Pressure Washer

Symbol	Explanation
A	Ampere
V	Volt
Hz	Hertz
kW	Kilowatt
t _{in max}	Maximum water temperature in pressure mode
p	Rated Pressure
p _{max}	Maximum Pressure
Q _{min}	Minimum water throughput
m	Weight



Spray gun trigger is locked.



Spray Gun trigger is unlocked.



STIHL products must not be disposed of in the household trash, but only in accordance with local, state and federal laws and regulations and as provided in this manual, [21](#).

19.3 Engineering Improvements

STIHL's philosophy is to continually improve all of its products. As a result, engineering changes and improvements are made from time to time. Therefore, some changes, modifications and improvements may not be covered in this manual. If the operating characteristics or the appearance of your machine differs from those described in this manual, please contact your STIHL dealer or the STIHL distributor in your area for assistance.

19.4 FCC 47 CFR Part 15 Compliance Statement

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

19.5 FCC 47 CFR Part 15 Information to the User

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can

be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient or relocate the receiving antenna,
- increase the separation between the equipment and receiver,
- connect the equipment to an outlet on a circuit different from that to which the receiver is connected,
- consult an authorized STIHL servicing dealer or an experienced radio/TV technician for help.

Do not change or modify this product in any way unless specifically allowed in this manual, since this could void your authority to operate it.

20 Replacement Parts and Equipment

20.1 Genuine STIHL Replacement Parts

STIHL recommends the use of genuine STIHL replacement parts. Genuine STIHL parts can be identified by the STIHL part number, the **STIHL** logo and, in some cases, by the STIHL parts symbol . The symbol may appear alone on small parts.

21 Disposal

Observe all federal, state and local disposal rules and regulations.

STIHL products must not be thrown in the household trash or disposed of except as outlined in these instructions. Take the product, accessories and packaging to an approved disposal site for environmentally friendly recycling.

Contact your STIHL servicing dealer for the latest information on waste disposal.

21.1 Battery Recycling



WARNING

- Handle discharged/depleted batteries carefully. If damaged or exposed to extreme temperatures, they may leak, generate heat, catch fire or explode.
- Observe all federal, state and local disposal rules and regulations.
- Recycle depleted batteries promptly.
- Keep batteries away from children. Do not disassemble and do not dispose of in fire.

22 Limited Warranty

22.1 STIHL Incorporated Limited Warranty Policy

This product is sold with the STIHL Incorporated Limited Warranty Policy, available at www.stihl-usa.com/warranty.html. It can also be obtained from your authorized STIHL dealer or by calling 1-800-GO-STIHL (1-800-467-8445).

23 Addresses

23.1 STIHL Incorporated

STIHL Incorporated
536 Viking Drive
P.O. Box 2015
Virginia Beach, VA
23452-2015

DRAFT

DRAFT

⚠ WARNING

Use of this pressure washer can generate dust or mist containing chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

⚠ WARNING

This pressure washer contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

⚠ ADVERTENCIA

El uso de esta hidrolavadora puede generar polvo o niebla que contiene productos químicos considerados por el Estado de California como causantes de cáncer, defectos de nacimiento u otra toxicidad reproductora.

⚠ ADVERTENCIA

Esta hidrolavadora contiene productos químicos considerados por el Estado de California como causantes de cáncer, defectos de nacimiento u otra toxicidad reproductora.