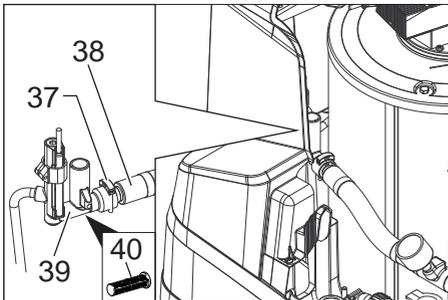
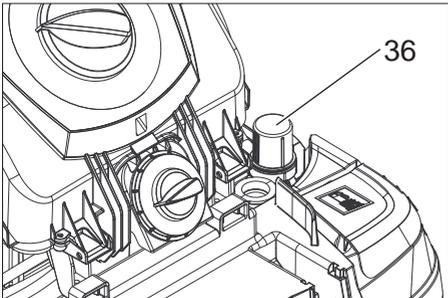
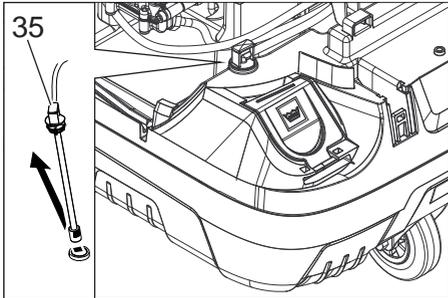
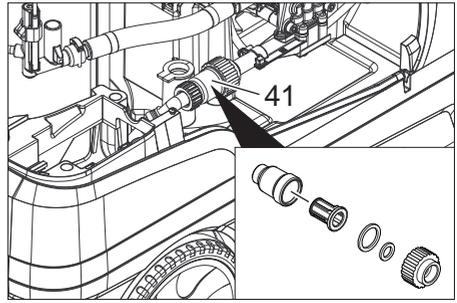
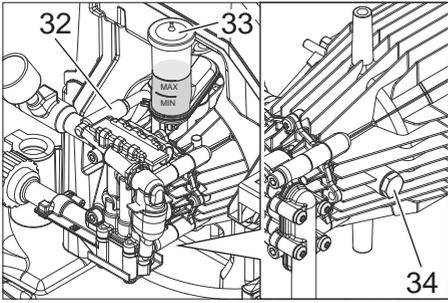


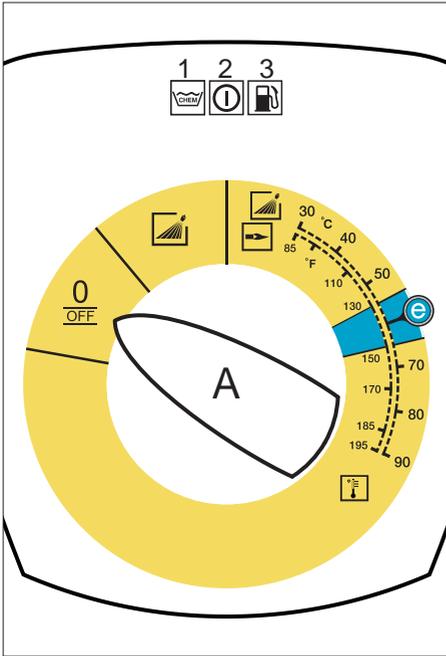
Register and win!  
[www.kärcher.com/register-and-win](http://www.kärcher.com/register-and-win)



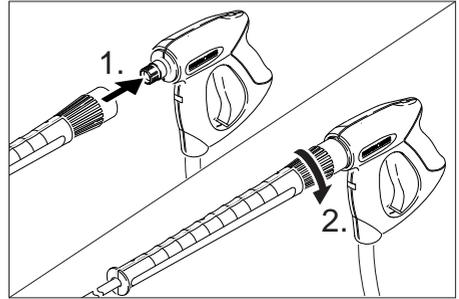




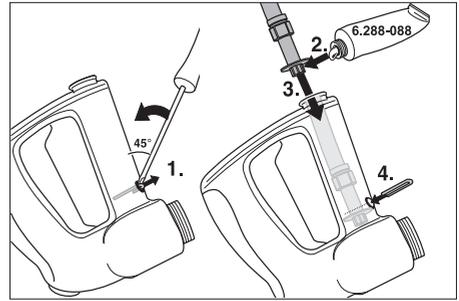
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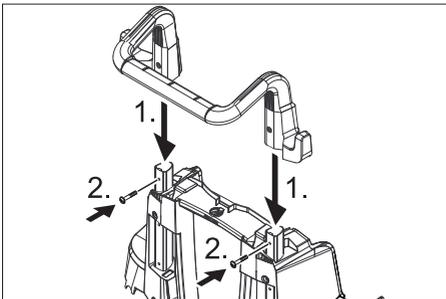
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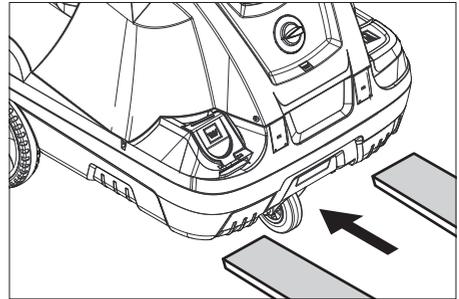
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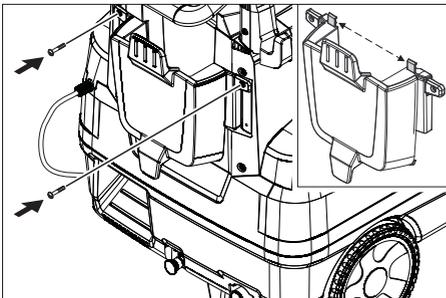
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4



## IMPORTANT SAFETY INSTRUCTIONS

### **⚠ WARNING**

*When using this product basic precautions should always be followed, including the following:*

- 1 Read all the instructions before using the product.
- 2 High pressure jets can be dangerous if misused. The jet must not be directed at persons, animals, electrical devices, or the unit itself.
- 3 To reduce the risk of injury, close supervision is necessary when a product is used near children.
- 4 Know how to stop the product and bleed pressures quickly. Be thoroughly familiar with the controls.
- 5 Stay alert – watch what you are doing.
- 6 Wear safety goggles.
- 7 Do not use acids, alkaline, solvents, or any flammable material in this product. These products can cause physical injuries to the operator and irreversible damage to the machine.
- 8 Do not operate the product when fatigued or under the influence of alcohol or drugs.
- 9 Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- 10 To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.
- 11 The Trigger Gun Safety Lock prevents the trigger from accidentally being engaged. This safety feature DOES NOT lock trigger in the ON position.
- 12 Keep operating area clear of all persons.
- 13 Close cover before operating the machine.
- 14 This appliance is intended for commercial use.
- 15 Follow the maintenance instructions specified in the manual.
- 16 This machine has been designed for use with cleaning chemicals supplied or recommended by the manufacturer. The use of other cleaning chemicals may affect the operation of the machine and void the warranty.
- 17 This product is provided with a Ground Fault Circuit Interrupter built into the power cord plug. If replacement of the plug or cord is needed, use only identical replacement parts.
- 18 Do not use extension cord with this product.
  - Injection hazard: equipment can cause serious injury if the spray penetrates the skin. Do not point the gun at anyone or any part of the body. In case of penetration seek medical aid immediately.
  - This system is capable of producing 1100 psi/7.6 MPa.  
To avoid rupture and injury, do not operate this pump with components rated less than 1100 psi/7.6 MPa working pressure (including but not limited to spray guns, hose and hose connections).
  - Before servicing, cleaning, or removal of any part, shut off power and relieve pressure.
  - Do not spray electrical apparatus and wiring.
  - High Pressure. Keep clear of nozzle.
  - If connection is made to a potable water system, the system shall be protected against backflow.

## Owner/User Responsibility

- The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using this pressure washer.
- Warning information should be emphasized and understood.
- If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents.
- Owner and/or user must study and maintain for future reference the manufacturer's instructions.

## GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, 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 grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

### **⚠ DANGER**

*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 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

This product is supplied with a Ground Fault Circuit Interrupter (GFCI) built into the power cord plug. This device provides additional protection from the risk of electric shock. If power is interrupted in the line, the GFCI will automatically re-close the circuit to the load after power is restored. Depending on the GFCI model, it may be necessary to manually operate the reset button to restore power to the GFCI load circuit. If replacement of the plug or cord is needed use identical replacement parts.

## WATER SUPPLY

### **⚠ CAUTION**

*When connecting the water inlet to the water supply mains, local regulations of your water company must be observed. In some areas the unit must not be connected directly to the public drinking water supply. This is to ensure that there is no feedback of chemicals into the water supply. Direct connection via a receiver tank or backflow preventer, for example, is permitted. Dirt in the feed water will damage the unit. To avoid this risk, we recommend fitting a water filter.*

- Garden hose must be at least 3/4 inch in diameter.
- Flow rate of water supply must not fall below 3.1 GPM (gallons per minute).
- Flow rate can be determined by running the water for one minute into an empty 5-gallon container.
- The water supply temperature must not exceed 86°F/30°C.
- Never use the pressure washer to draw in water contaminated with solvents, e.g. paint thinners, gasoline, oil, etc.
- Always prevent debris from being drawn into the unit by using a clean water source. Use additional water filter.

**SAVE THESE INSTRUCTIONS!**



Please read and comply with these original instructions prior to the initial operation of your appliance and store them for later use or subsequent owners.

- Before first start-up it is definitely necessary to read the operating instructions and safety indications Nr. 5.951-949.0!
- In case of transport damage inform vendor immediately
- Check the contents of the pack before unpacking. For scope of delivery see illustration 1.

## Contents

Environmental protection . .	EN . . . 1
Symbols in the operating instructions . . . . .	EN . . . 1
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Symbols on the machine . .	EN . . . 2
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## Environmental protection



The packaging material can be recycled. Please do not throw the packaging material into household waste; please send it for recycling.



Old appliances contain valuable materials that can be recycled; these should be sent for recycling. Batteries, oil, and similar substances must not enter the environment. Please dispose of your old appliances using appropriate collection systems.

Please do not release engine oil, fuel oil, diesel and petrol into the environment. Protect the ground and dispose of used oil in an environmentally-clean manner.

### Notes about the ingredients (REACH)

You will find current information about the ingredients at:

[www.kaercher.com/REACH](http://www.kaercher.com/REACH)

## Symbols in the operating instructions

### **Danger**

*Immediate danger that can cause severe injury or even death.*

### **Warning**

*Possible hazardous situation that could lead to severe injury or even death.*

### **Caution**

*Possible hazardous situation that could lead to mild injury to persons or damage to property.*

# Overview

## Device elements

### Figure 1

- 1 Support for spray lance
- 2 Manometer
- 3 Recess for detergent suction hose
- 4 Recessed grip (both sides)
- 5 Wheel
- 6 Connection for water supply with filter
- 7 Water supply set
- 8 O-ring set (for replacement)
- 9 High pressure connection
- 10 High pressure hose
- 11 Spray lance
- 12 Triple nozzle
- 13 Pouring vent for detergent
- 14 Steering roller with fixed position brake
- 15 Fuel sieve
- 16 Safety latch of the hand spray gun
- 17 Hand spray gun
- 18 Power supply
- 19 Tool bag
- 20 Pouring vent for fuel
- 21 Dosage valve for detergent
- 22 Operating field
- 23 Storage for hand spray gun
- 24 Step depression
- 25 Handle
- 26 Nameplate
- 27 Cover lock
- 28 Storage compartment for accessories
- 29 Burner
- 30 Recess for spray pipe
- 31 Cover
- 32 Backflow valve of the detergent infeed
- 33 Oil tank
- 34 Oil drain screw
- 35 Detergent suction hose with filter
- 36 Fuel filter
- 37 Fastening clamp
- 38 Hose (soft damping system) of the water shortage safeguard
- 39 Water shortage safeguard

- 40 Sieve in the water shortage safeguard
- 41 Fine filter (water)

## Operating field

### Figure 2

- A Power switch
- 1 Indicator lamp for detergent
- 2 "Ready for use" indicator lamp
- 3 Fuel indicator lamp

## Colour coding

- The operating elements for the cleaning process are yellow.
- The controls for the maintenance and service are light gray.

## Symbols on the machine



*High-pressure jets can be dangerous if improperly used. The jet may not be directed at persons, animals, live electrical equipment or at the appliance itself.*

	<b>Risk of electric shock!</b> Only electricians or authorised technicians are permitted to work on parts of the plant.
	<b>Risk of burns on account of hot surfaces!</b>
	<b>Risk of poisoning! Do not breathe in the exhaust fumes.</b>

*According to the applicable regulations, the appliance must never be used on the drinking water supply without a system separator. Use a suitable system separator manufactured by KÄRCHER; or, as an alternative, a system separator as per EN 12729 Type BA. Water flowing through a system separator is considered non-drinkable.*

### Caution

*Always connect the system separator to the water supply, never directly to the appliance!*

## Proper use

Cleaning of: Machines, Vehicles, Structures, Tools, Facades, Terraces, Gardening tools, etc.

### **⚠ Danger**

*Risk of injury! Follow the respective safety regulations when operating at gas stations or other dangerous areas.*

Please do not let mineral oil contaminated waste water reach soil, water or the sewage system. Perform engine cleaning and bottom cleaning therefore only on specified places with an oil trap.

## Safety instructions

### PROPOSITION 65

#### WARNING

The burner exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

- Please follow the national rules and regulations for fuel spray jets of the respective country.
- Please follow the national rules and regulations for accident prevention of the respective country. Fuel spray jets must be tested regularly and the results of these tests must be documented in writing.
- The heating appliance of the machine is an ignition plant. All national laws and regulations about heating systems must also be followed.

## Safety Devices

Safety devices serve for the protection of the user and must not be put out of operation or bypassed with respect to their function.

### Pressure switch

- The pressure switch turns the device off when the handgun is closed and switch on when the handgun is opened.

## Safety valve

- The safety valve opens, when the overflow valve resp. the pressure switch is broken.

The safety valve is set by the manufacturer and sealed. Setting only by customer service.

## Water shortage safeguard

- The water shortage safeguard prevents the burner to be turned on when there is water shortage.
- A sieve prevents the contamination of the safeguard and must be cleaned regularly.

## Temperature stop for exhaust gases

- The temperature stop switches off the machine when the waste gases have reached very high temperatures.

## Start up

### **⚠ Warning**

*Risk of injury! Device, tubes, high pressure hose and connections must be in faultless condition. Otherwise, the appliance must not be used.*

- ➔ Lock parking brake.

## Installing the handle

### Figure 3

Screw tightening torque: 6.5-7.0 Nm

## Install the tool bag

### Figure 4

- ➔ Hook the tool bag onto the top tabs on the appliance.
- ➔ Tilt the tool bag down and lock it into place.
- ➔ Fasten the tool bag with 2 screws (torque: 6.5 - 7.0 Nm).

## Install the hand-spray gun, the jet pipe, the nozzle and the high pressure hose

Figure 5

- Connect ray tube with hand spray gun
- Tighten the screw connection of the spray lance finger tight.
- Mount the nozzle on the spray pipe (markings on the adjustment ring at the top).
- Connect the high pressure hose to the high pressure connection point of the machine.

## Installing spare high pressure hose

Figure 6

### Refill fuel

#### **⚠ Danger**

*Risk of explosion! Only refill diesel oil or light fuel oil. Unsuitable fuels, e.g. petrol, are not to be used.*

#### **Caution**

*Never operate device with empty fuel tank  
The fuel pump will otherwise be destroyed.*

- Refill fuel.
- Close tank lock.
- Wipe off spilled fuel.

### Refill detergent

#### **Caution**

*Risk of injury!*

- Use Kärcher products only.
- Under no circumstances fill solvents (petrol, acetone, diluting agent etc.)
- Avoid eye and skin contact.
- Observe safety and handling instructions by the detergent manufacturer.

#### **Kärcher offers an individual cleaning and care appliances program.**

Your dealer will consult you gladly.

- Refill detergent.

## Water connection

For connection values refer to technical specifications

- Attach supply hose (minimum length 24.6 ft/7.5 m, minimum diameter 3/4") to the water supply set by means of a hose clamp.
- Connect the supply hose to the water connection point of the machine and at the water supply point (for e.g. a tap).

**Note:** The supply hose and the hose clamp are not included in the scope of delivery.

## Suck in water from vessel

- Connect suction hose (minimum diameter 3/4") with filter (accessory) to the water connection point.
- Max. suck height: 1.6 ft (0.5 m)

Until the pump sucked in water, you should:

- Close the dosing valve for the detergent.

#### **⚠ Danger**

Never suck in water from a drinking water container. Never suck in liquids which contain solvents like lacquer thinner, petrol, oil or unfiltered water. The sealings within the device are not solvent resistant. The spray mist of solvents is highly inflammable, explosive and poisonous.

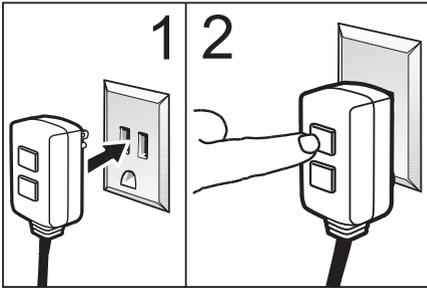
## Power connection

- For connection values, see technical data and type plate.
- The electrical connections must be done by an electrician according to NEC and local codes.

## GFCI INSTRUCTIONS

- **STEP 1:** Plug the Ground Fault Circuit Interrupter (GFCI) into a working outlet.
- **STEP 2:** Press "TEST", then press "RESET" to assure proper connection to power.

Note: The actual appearance of the GFCI may be different from this illustration.



## Operation

### ⚠ Danger

*Risk of explosion!*

*Do not spray flammable liquids.*

### ⚠ Danger

*Risk of injury! Never use the appliance without the spray lance attached. Check and ensure proper fitting of the spray lance prior to each use. The screw connection of the spray lance must be fingertight.*

### Caution

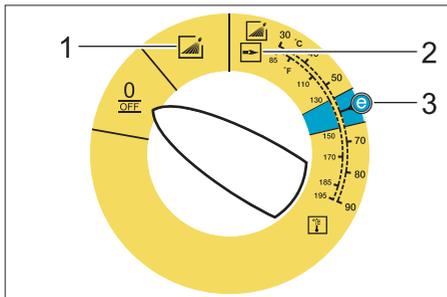
*Never operate device with empty fuel tank. The fuel pump will otherwise be destroyed.*

## Replace the nozzle

### ⚠ Danger

*Switch the appliance off prior to replacing nozzle and activate hand spray gun until device is pressureless.*

## Operating modes



0/OFF = Off

- 1 Operating with cold water
- 2 Operating with hot water
- 3 Eco setting (hot water max. 140 °F/60 °C)

## Turning on the Appliance

- Set appliance switch to desired operating mode.  
Indicator lamp for operational readiness lights up.

The device starts briefly and turns off, as soon as the working pressure is reached.

- Release the trigger gun.

When activating the hand spray gun the device switches back on.

**Note:** If no water comes out of the high pressure nozzle, vent pump. Refer to "Help with malfunctions - appliance is not building up pressure".

## Adjust cleaning temperature

- Set device switch to desired temperature.

## Triple nozzle

- Close the hand spray gun.
- Turn the casing of the nozzle till the desired symbol matches the marking.

	High pressure flat spray (25°) for large dirt areas High pressure circular spray (0°) for specially stubborn dirt
	Flat low pressure spray (CHEM) for operating using detergents or cleaning at low pressure.

Select round or flat spray using touch-less switching:

- Close the hand spray gun.
- Turn the spray-pipe that is inclined about 45° downward to the left or the right.

## Operation with detergent

- For considerate treatment of the environment use detergent economically.
- The detergent must be suitable for the surface to be cleaned.
- Set nozzle to "CHEM".

- With support of the detergent dose valve set detergent concentration as determined by the manufacturer.

**Note:** Recommended values at the control panel at maximum working pressure.

**Note:** If detergent is to be suctioned from an external container, route the detergent suction hose through the recess to the outside.

### Cleaning

- Set temperature and detergent concentration according to the surface to be cleaned.

**Note:** To prevent damage due to too much pressure, always position high pressure ray first from a greater distance towards object to be cleaned.

### Recommended cleaning method

- Loosen the dirt:
- Spray detergent economically and let it work for 1...5 minutes but do not let it dry up.
- Remove the dirt:
- Spray off loosened dirt with the high pressure jet.

### Operating with cold water

Removal of light contaminations and clear rinse, i.e.: Gardening tools, terrace, tools, etc.

### Eco level

The appliance works in the most economical temperature range (max. 140 °F/60 °C).

### Operating with hot water

#### **Danger**

*Scalding danger!*

- Set device switch to desired temperature.

We recommend the following cleaning temperatures:

- Light contaminations  
**86 °F/30 °C-122 °F/50 °C**
- Contaminations containing protein, i.e. in the food processing industry  
**max. 140 °F/60 °C**

- Vehicle cleaning, machine cleaning  
**140 °F/60 °C-194 °F/90 °C**

### After operation with detergent

- Set dosing value for detergent to "0".
- Set the appliance switch to "1" (operation with cold water).
- Open the hand spray gun and rinse the appliance for at least 1 minute.

### Turn off the appliance

#### **Danger**

*Danger of scalding by hot water. After operation with hot water, the device must be operated with open end handgun with cold water for at least two minutes.*

- Set the appliance switch to "0/OFF".
- Shut off water supply.
- Open the hand spray gun.
- Turn on pump shortly (appr. 5 seconds) with device switch.
- Pull main plug out of socket with dry hands only.
- Remove water connection.
- Activate hand spray gun until device is pressure less.
- Lock the trigger gun.

### Storing the Appliance

- Lock in the steel pipe into the holder of the appliance hood.
- Roll up high pressure hose and electrical conduit and hang them into the respective holders.

**Note:** Do not twist high pressure hose and electrical conduit.

### Frost protection

#### **Caution**

*Frost will destroy the not completely water drained device.*

- Store in a frost free area.
- If the device is connected to a chimney, the following must be observed:

#### **Caution**

*Threat of damage by penetrating cold air through the chimney.*

- Disconnect device from chimney when outside temperature drops below 32 °F/ 0 °C.

If it is not possible to store frost free, shut down device.

### Shutdown

For longer work breaks or if a frost free storage is not possible:

- Drain water.
- Flush device with anti-freeze agent.
- Empty detergent tank.

### Dump water

- Screw off water supply hose and high pressure hose.
- Screw off supply hose at boiler bottom and drain heating spiral empty.
- Operate device for max. 1 minute until the pump and conduits are empty.

### Flush device with anti-freeze agent

**Note:** Observe handling instructions of the anti-freeze agent manufacturer.

- Use commercially available anti-freeze agent.
- Switch on appliance (without heater) till the appliance has been completely rinsed.

A certain corrosion protection is achieved with this as well.

## Storage

### Caution

*Risk of injury and damage! Note the weight of the appliance in case of storage.*

## Transport

### Figure 7

### Caution

*Risk of damage! When loading the appliance with a forklift, observe the illustration.*

### Caution

*Risk of injury and damage! Observe the weight of the appliance when you transport it.*

- When transporting in vehicles, secure the appliance according to the guidelines from slipping and tipping over.

## Maintenance and care

### **Danger**

*Risk of injury by inadvertent startup of appliance and electrical shock.*

*First pull out the plug from the mains before carrying out any tasks on the machine.*

- Set the appliance switch to "0/OFF".
- Shut off water supply.
- Open the hand spray gun.
- Turn on pump shortly (appr. 5 seconds) with device switch.
- Pull main plug out of socket with dry hands only.
- Remove water connection.
- Activate hand spray gun until device is pressure less.
- Lock the trigger gun.
- Allow device to cool down.

**Your Kärcher vender will inform you about the performance of a periodic safety inspection resp. signing of a maintenance contract.**

### Maintenance intervals

#### Weekly

- Clean the sieve in the water connection.
- Clean the fine filter.
- Clean the fuel sieve.
- Check oil level.

#### Caution

*In case of lacteous oil inform Kärcher customer service immediately*

#### Monthly

- Clean sieve in the water shortage safe guard.
- Clean filter at the detergent suck hose.

**After 500 operating hours, at least annually**

- Oil change.

### Maintenance Works

**Clean the sieve in the water connection**

- Take out sieve.
- Clean sieve in water and reinstall.

### Cleaning the fine filter

- Unpressurize the appliance.
- Unscrew the fine filter from the pump head.
- Remove the fine filter and the filter insert.
- Clean the filter with clean water or compressed air.
- Reinstall in reverse sequence.

### Clean the fuel sieve

- Knock the dirt off of the fuel sieve. Do not let the fuel enter the environment.

### Clean sieve in the water shortage safe guard

- Remove the fastening clamp and pull out the hose (soft damping system) of the lack of water fuse.
- Take out sieve.

**Note:** If necessary turn in screw M8 appr. 0.2 in/5 mm inwards and therewith pull out sieve.

- Clean sieve in water.
- Push sieve inwards.
- Slide the hose adapter all the way into the lack of water fuse and secure it with a fastening clamp.

### Clean filter at the detergent suck hose

- Take out detergent suck supports.
- Clean filter in water and reinstall.

### Oil change

- Ready a catch bin for appr. 0.26 gal/ 1 Liter oil.
- Loosen release screw.

Dispose of old oil ecologically or turn in at a gathering point.

- Tighten release screw.
  - Fill oil slowly up to the MAX marking.
- Note:** Air pockets must be able to leak out.  
**For oil type refer to technical specifications.**

## Troubleshooting

### **Danger**

*Risk of injury by inadvertent startup of appliance and electrical shock.*

*First pull out the plug from the mains before carrying out any tasks on the machine.*

### Indicator lamp "Ready for use" turns off

- No line voltage, see "Appliance is not running".

### Fuel indicator lamp glows

- Fuel tank empty.
- Refill fuel.

### Indicator lamp for detergent glows

- Detergent tank is empty.
- Refill detergent.

### Appliance is not running

- No power
- Check power connection/conduit.

### Device is not building up pressure

- Nozzle is set to "CHEM"
- Set nozzle to "High pressure".
- Air within the system

Vent pump:

- Set dosing value for detergent to "0".
- With open hand spray gun turn device on and off multiple times with the device switch.

**Note:** By dismantling the high pressure hose from the high pressure connection the venting process is accelerated.

- If detergent tank is empty, refill.
- Check connections and conduits.
- Sieve in the water connection is dirty
- Clean sieve.
- Clean the fine filter; replace it, if necessary.
- Amount of water supply is too low.
- Check water supply level (refer to technical data).

### Device leaks, water drips from the bottom of the device

- Pump leaky

**Note:** 3 drops/minute are allowed.

- ➔ With stronger leak, have device checked by customer service.

### Device turns on and off while hand spray gun is closed

- Leak in the high pressure system
- ➔ Check high pressure system and connections for tightness.

### Device is not sucking in detergent

- Nozzle is set to "High pressure"
- ➔ Set nozzle to "CHEM".
- Filter in the detergent suck hose dirty
- ➔ Clean filter.
- Backflow valve stuck
- ➔ Remove the detergent hose and loosen the backflow valve using a blunt object.

### Burner does not start

- Fuel tank empty.
- ➔ Refill fuel.
- Water shortage
- ➔ Check water supply, check connections.
- ➔ Clean sieve in the water shortage safe guard.
- Fuel filter dirty
- ➔ Change fuel filter.
- No ignition spark
- ➔ If device is in use and no ignition spark can be seen through the viewing glass, have device checked by customer service.

### Set temperature is not achieved while using hot water

- Sooty heating spiral
- ➔ Have device de-sooted by customer service.

## Customer Service

**If malfunction can not be fixed, the device must be checked by customer service.**

## Warranty

The warranty terms published by our competent sales company are applicable in each country. We will repair potential failures of the appliance within the warranty period free of charge, provided that such failure is caused by faulty material or defects in fabrication.

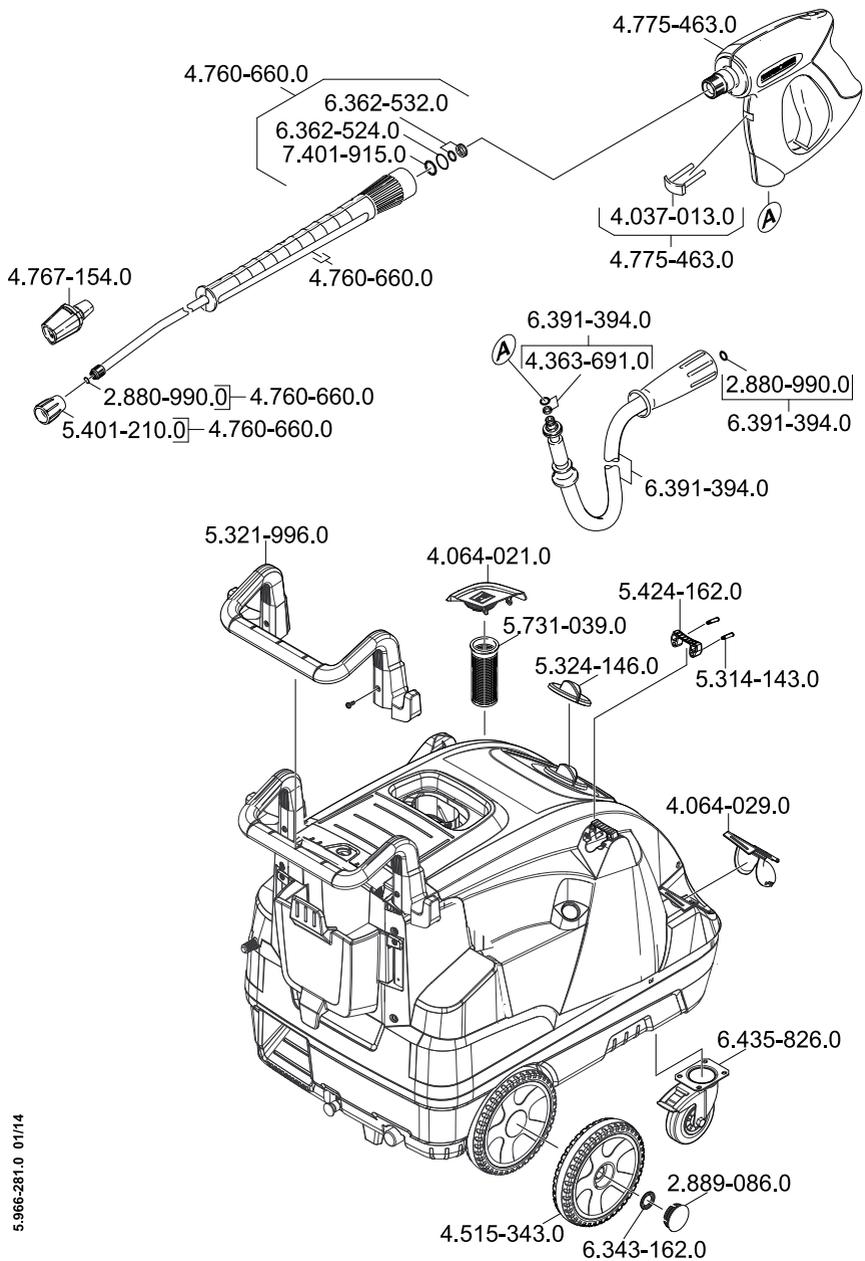
## Accessories and Spare Parts

**Note:** When connecting the appliance to a chimney or if the device cannot be accessed visually, we recommend the installation of a flame monitor (option).

- Only use accessories and spare parts which have been approved by the manufacturer. The exclusive use of original accessories and original spare parts ensures that the appliance can be operated safely and trouble free.
- At the end of the operating instructions you will find a selected list of spare parts that are often required.
- For additional information about spare parts, please go to the Service section at [www.kaercher.com](http://www.kaercher.com).

## Technical specifications

		HDS 2.3/12 C Ed
<b>Main Supply</b>		
Voltage	V	110-120
Current type	Hz	1~ 60
Connected load	hp (kW)	2.8 (2.1)
Protection (slow)	A	20
Type of protection	--	IPX5
Protective class	--	I
<b>Water connection</b>		
Max. feed temperature	°F (°C)	86 (30)
Min. feed volume	gpm (l/min)	3.1 (11.7)
Suck height from open container (68 °F/20 °C)	ft (m)	1.6 (0.5)
Max. feed pressure	psi (MPa)	145 (1)
<b>Performance data</b>		
Water flow rate	gpm (l/min)	2.3 (8.8)
Operating pressure of water (using standard nozzle)	psi (MPa)	1100 (7.6)
Max. excess operating pressure (safety valve)	psi (MPa)	2150 (14.8)
Max. operating temperature of hot water	°F (°C)	190 (88)
Detergent suck in	gpm (l/min)	0-0.1 (0-0.4)
Burner performance	hp (BTU/h)	42 (107,000)
Maximum consumption of heating oil	kg/h (gph)	3.1 (1.06)
Max. recoil force of hand spray gun	N	16
Nozzle size	--	050
<b>Values determined as per EN 60355-2-79</b>		
Noise emission		
Sound pressure level $L_{pA}$	dB(A)	74
Uncertainty $K_{pA}$	dB(A)	3
Sound power level $L_{WA}$ + Uncertainty $K_{WA}$	dB(A)	92
Hand-arm vibration value		
Hand spray gun	m/s <sup>2</sup>	1.3
Spray lance	m/s <sup>2</sup>	2.4
Uncertainty K	m/s <sup>2</sup>	0.3
<b>Fuel</b>		
Fuel	--	Fuel oil EL or Diesel
Amount of oil	gal (l)	0.08 (0.3)
Oil grade	--	0W40
<b>Dimensions and weights</b>		
Length x width x height	in (mm)	41.7 x 25.6 x 36.2 (1060 x 650 x 920)
Typical operating weight	lbs (kg)	190 (86.2)
Fuel tank	gal (l)	4.1 (15.5)
Detergent Tank	gal (l)	4.1 (15.5)



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