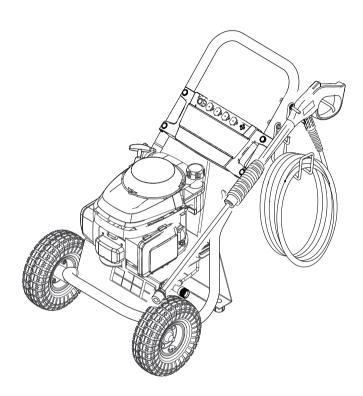
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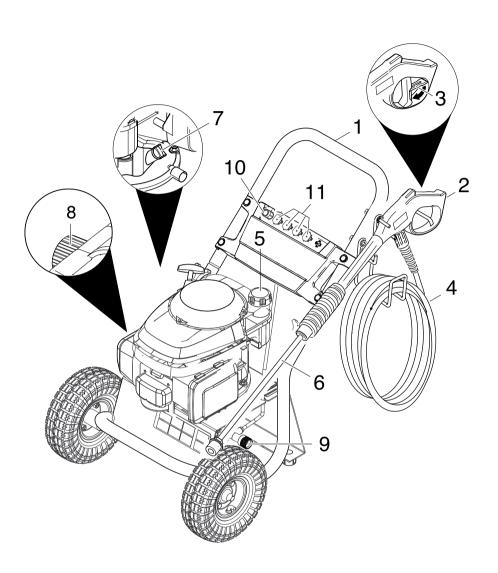
KARCHER

Manual not for use in USA and Canada!



Modister and win!





Dear Customer.

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.

Contents

Illustration of appliance / scope of delivery	2
General information	3
Safety instructions	4
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General information

Proper Use

This high-pressure cleaner is designed for domestic use only:

- to clean machines, vehicles, buildings, tools, facades, terraces, garden equipment etc. using a high-pressure water jet (and detergents if required).
- with accessories, replacement parts and detergents approved by KÄRCH-ER. Observe the instructions provided with these detergents.

Environmental protection

The packaging material can be recycled. Please do not place the packaging into the ordinary refuse for disposal, but arrange for the proper recycling.

Old appliances contain valuable materials that can be recycled. Please arrange for the proper recycling of old appliances. Please dispose your old appliances.

ances using appropriate collection systems.

Notes about the ingredients (REACH)

You will find current information about the ingredients at:

http://www.karcher.de/de/unternehmen/ umweltschutz/REACH.htm

Warranty

The warranty terms published by the relevant sales company are applicable in each country. We will repair potential failures of your appliance within the warranty period free of charge, provided that such failure is caused by faulty material or defects in manufacturing. In the event of a warranty claim please contact your dealer or the nearest authorized Customer Service centre. Please submit the proof of purchase. (See address on the reverse)

Symbols in the operating instructions

△ Danger

Immediate danger that can cause severe injury or even death.

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.

Symbols on the machine



The high pressure jet may not be directed at persons, animals, live electrical equipment or at the appliance itself. Pro-

tect the appliance against frost.



Risk of burns on account of hot surfaces!



Risk of poisoning! Do not breathe in the exhaust fumes.

Safety instructions

△ Danger

- The appliance may not be used in areas where a risk of explosion is present.
- If the appliance is used in hazardous areas (e.g. filling stations) the corresponding safety provisions must be observed.
- Ensure that there is adequate ventilation or provision for diverting the exhaust gas while operating the appliance in closed rooms (risk of poisoning).
- The appliance must not be used if the power cord or important parts of the appliance, e.g. safety devices, high-pressure hoses, spray guns, are damaged.
- Check the high-pressure hose for damage before every use. Please arrange for the immediate replacement of a damaged high-pressure hose.
- High-pressure jets can be dangerous if improperly used. The jet must not be directed at persons, animals, live electrical equipment or at the appliance itself.
- The high-pressure jet must not be directed at other persons or directed by the user at him/herself to clean clothing or footwear.
- Never use the appliance to clean objects containing hazardous substances (e.g. asbestos).
- Vehicle tyres or tyre valves are susceptible to damage from the high-pressure jet and may burst. The first indication of this is a discolouration of the tyre. Damaged vehicle tyres/tyre valves are highly dangerous. Ensure that a distance of at least 30 cm is observed when cleaning with the jet!
- Never draw in fluids containing solvents or undiluted acids and solvents! This includes petrol, paint thinner and heating oil. The spray mist thus generated is highly inflammable, explosive and poi-

- sonous. Do not use acetone, undiluted acids and solvents as they are damaging to the materials from which the appliance is made.
- Only use the fuels specified in the Operating Manual. Risk of explosion due to the use of inappropriate fuels.
- Do not use high pressure cleaners when there has been an oil spill; move the appliance to another spot and avoid any sort of spark formation.
- Do not store, spill or use fuel in the vicinity of open flames or appliances such as ovens, boilers, water heaters, etc. that have an ignition flame or can generate sparks.
- Do not smoke or use open fire while filling and storing fuels.
- Do not overfill the tank. There must not be any fuel in the filling nozzle.
- Fuels may only be filled in a well-ventilated room and while the engine is switched off. Petrol is highly prone to fire hazards and is explosive under some circumstances. After filling, make sure that the lid on the fuel tank is closed properly.
- Avoid repeated or extended contact between fuel and your skin as well as breathing the vapors.
- Keep even mildly inflammable objects and materials away from the silencer (at least 2 m).
- Do not start the engine without the silencer; check, clean and replace, if required, the silencer at regular intervals.
- Do not use the engine in forest, bushes or grassy areas without fitting a spark receiver at the exhaust.
- Except for setting jobs, do not run the engine when the air filter is removed or there is no cover over the suction support.
- Do not make any adjustments to the regulator springs, regulator bars or other parts that can bring forth an increase in the engine speed.

- Risk of burns! Do not touch hot silencers, cylinders or radiator ribs.
- Do not put hands or feet close to moving or rotating parts.

- High-pressure hoses, fixtures and couplings are important for the safety of the appliance. Only use high-pressure hoses, fixtures and couplings recommended by the manufacturer.
- This appliance is not intended for use by persons with reduced physical, sensory or mental capabilities.
 - The appliance must not be operated by children or persons who have not been instructed accordingly.
 - Children should be supervised to prevent them from playing with the appliance.
- This appliance was designed to be used with detergents which are supplied or recommended by the manufacturer. The use of other detergents or chemicals may compromise the safety of the appliance.
- The operator must use the appliance correctly. When working with the appliance, he must consider the local conditions and pay due care and attention to other persons, in particular children, who are nearby.
- Risk of hearing impairment. Always use proper ear-protection aids while working with the appliance.
- Do not use the appliance when there are other persons around unless they are also wearing safety equipment.
- Wear protective clothing and safety goggles to protect against splash back containing water or dirt.
- When operating the machine, do not place it in such a way that it can cause damage to persons, for e.g. on scaffoldings, etc.
- Long hours of using the appliance can cause circulation problems in the hands on account of vibrations.

It is not possible to specify a generally valid operation time, since this depends on several factors:

- Proneness to blood circulation deficiencies (cold, numb fingers).
- Low ambient temperature. Wear warm gloves to protect hands.
- Continuous operation is worse than an operation interrupted by pauses.

In case of regular, long-term operation of the device and in case of repeated occurrence of the symptoms (e.g. cold, numb fingers) please consult a physician.

Caution

- Observe a distance of at least 30 cm when using the jet to clean painted surfaces to avoid damaging paintwork.
- Never leave the appliance unattended when it is in operation.
- All current-conducting parts in the working area must be protected against jet water.
- Always use appropriate gloves while working on the device.
- Cleaning operations which produce oily waste water, e.g. engine washes, underbody washes, may only be carried out using washing stations equipped with an oil separator.

Safety Devices

Caution

Safety devices protect the user and must not be modified or bypassed.

Lock trigger gun

This lock locks the lever of the trigger gun and prevents the inadvertent start of the appliance.

Thermo-valve at the pump

The thermostat valve prevents the pump from over-heating.

The circulation heats up the water. At 60 °C water temperature, the thermostat valve opens and lets out hot water.

Prerequisites for the appliance's stability

Caution

Create stability for the appliance prior to all work on or with the appliance to prevent accidents or damage.

 The stability of the appliance is warranted when it is placed onto an even surface.

Operation

Description of the Appliance

When unpacking the product, make sure that no accessories are missing and that none of the package contents have been damaged. If you detect any transport damages please contact your dealer.

Illustrations on Page 2

- 1 Handle
- 2 Trigger gun
- 3 Lock trigger gun
- 4 High pressure hose
- 5 Fuel tank
- 6 Spray lance
- 7 Oil dipstick
- 8 Water connection
- 9 High pressure connection
- 10 Detergent suction hose (with filter)
- 11 Quick connect nozzles

For engine details see engine manual.

Special accessories

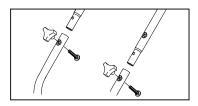
Special accessories expand the possibilities of using your appliance. Please contact your KÄRCHER dealer for further information.

Before Startup

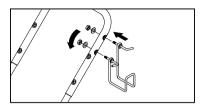
Mount loose parts delivered with appliance prior to start-up.

Illustrations on Page 2

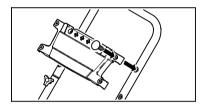
→ Attach the handle to the frame of the pressure washer. Align holes, insert bolts, and tighten with knobs.



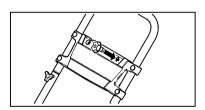
→ Mount the gun/hose storage handle.



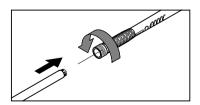
→ Mount the nozzle holder with enclosed nylon rivets to the handle.



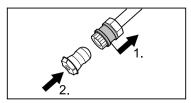
→ Place the quick connect nozzles in the nozzle holder.



→ Attach the wand to the trigger gun.



→ Pull the spring-loaded collar of the wand back to insert your choice of quick connect nozzle.



→ Release the collar and push the nozzle until the collar clicks.

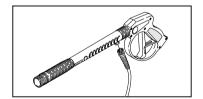


△ WARNING

High pressure in nozzle area.

Risk of injury caused by improperly locked nozzle.

- Make sure you hear a 'click' when inserting the nozzle tip into the wand.
- Pull the nozzle to make sure it is seated properly before operating your unit.
- → Attach the high pressure hose to the trigger gun.



Water supply

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!

Water supply from mains

Observe regulations of water supplier. For connection values, see type plate/technical data.

→ Use a fibre-reinforced water hose (not included) with a standard coupling. (Minimum diameter 1/2" (13 mm), minimum length 7.5 m).

Start up

Caution

Dry runs lasting longer than two minutes lead to damages to the high pressure pump. If the appliance does not build up pressure within two minutes, switch it off and proceed as instructed in the Chapter "Troubleshooting".

Caution

The appliance is delivered without engine oil. Please fill in engine oil before using the appliance for the first time.

If you have further questions regarding the engine, please refer to the engine manual included with the unit.

→ Check oil level. Oil level should always be between the "FULL" and "ADD" marks on the dipstick.

Be sure the machine is level when checking the oil level. (Refer to the engine's operating manual for seasonal grades.).

We recommend that the oil be changed after the first 5 hours of use, then once every 50 hours.

- → Fill gas tank with unleaded gasoline.

 Do not use leaded gasoline.

 Do not add oil to the gasoline.
- → Connect the high pressure hose to the unit's high pressure outlet.
- → Connect garden hose to unit's water inlet
- → Connect garden hose to the cold water source and turn water on completely.

 Do not use hot water.

Operation

The trigger gun is subjected to a recoil force when the water jet is discharged. Make sure that you have a firm footing and are also holding the trigger gun and spray lance firmly.

- → Unlock the trigger gun safety lock. Trigger the gun to eliminate trapped air, wait for a steady flow of water to emerge from the spray nozzle.
- → Open fuel valve.
 - Pull the choke rod to the ON position (on a warm engine, leave the choke rod in the OFF position).
- → Move the engine stop switch to the ON position.
 - For engine details see engine manual.
- → Pull the starter handle.

If the engine fails to start after 3 pulls, squeeze the trigger gun to release pressure, and repeat step.

After the engine warms up enough to run smoothly, move choke rod to OFF position.

Quick connect nozzles

The color-coded quick connect nozzles provide a wide array of spray widths from 0° to 65° and are easily accessible when placed in the convenient nozzle holder.

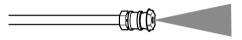
0° spray angle = Red nozzle

For particularly stubborn accumulation of grime. *Not recommended* for soft materials like sidings, decks, painted surfaces, cars.



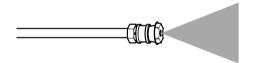
25° spray angle = Green nozzle

For dirt accumulation over a large surface.



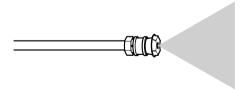
40° spray angle = White nozzle

For moderate dirt accumulation over a large surface.



65° spray angle = Black detergent nozzle For operating with detergent or cleaning

For operating with detergent or cleaning with low pressure.



⚠ WARNING

High pressure in nozzle area.
Risk of injury caused by improperly locked nozzle.

- Make sure you hear a 'click' when inserting the nozzle tip into the wand.
- Pull the nozzle to make sure it is seated properly before operating your unit.

Working with detergent

Please use exclusively KÄRCHER detergents and care products to carry out the respective cleaning task, as these were specifically developped for your appliance. The use of other detergents and care products may lead to premature wear and can invalidate your warranty claims. Please obtain information at your local dealer or request information directly from KÄRCHER.

Detergents can only be applied with the black detergent nozzle.

- → Install the black detergent nozzle for detergent application (will work at low pressure only).
- → Fill a container with Kärcher detergent. Place the filter end of detergent suction tube into the container.



- → With the engine running, pull trigger to operate unit.
 - Liquid detergent is drawn into the unit and mixed with water.
 - Apply detergent to work area.
 - Do not allow detergent to dry on surface.
- → Always draw fresh water through the detergent suction tube when the cleaning job is done, to rinse/flush any remaining detergents from the injection system.

Recommended cleaning method

- Spray the detergent sparingly on the dry surface and allow it to react, but not to dry.
- → Spray off loosened dirt with the highpressure jet.

Interrupting operation

- → Release the lever on the trigger gun.

 Note: When the lever of the hand spray gun is released, the engine continues to run at zero speed. The water thus circulates within the pump and gets heated. When the water has reached the maximum permissible temperature (60°C), the themostat valve opens and water flows out.
- → Lock the lever on the trigger gun.
- → Insert the trigger gun in its holder.

During longer breaks (more than 5 minutes), also turn off the motor.

→ Move the engine stop switch to the OFF position.

For engine details see engine manual.

→ Release trigger and engage gun safety lock.

Finish operation

Caution

Only separate the high-pressure hose from the trigger gun or the appliance while there is no pressure in the system.

- → After working with detergent, suspend detergent suction hose in a container filled with clear water, switch the appliance on for around 1 minute once the spray lance has been removed and rinse until water runs clear.
- → Move the engine stop switch to the OFF position.
- → Close the fuel valve.
- → Turn off the water source.
- → Press trigger to release water pressure.
- → Release trigger and engage gun safety lock.
- → Disconnect the garden hose from the water inlet on the unit.
- → Disconnect the high pressure hose from the high pressure outlet.

Transport

Caution

In order to prevent accidents or injuries, keep in mind the weight of the appliance during transport (see Specifications).

When transporting by hand

⚠ Warning

Fuel vapors or spilled fuel are flammable. Keep the appliance horizontal during transport to avoid spilling fuel.

→ Pull the appliance by its transport handle.

When transporting in vehicles

- → Empty fuel tank.
- → Secure the appliance against shifting and tipping over.
- → Only transport the appliance in an upright position.

Storage

Caution

In order to prevent accidents or injuries, keep in mind the weight of the appliance when selecting a storage location for it (see Specifications).

Storing the Appliance

- → Park the machine on an even surface.
- → Insert the trigger gun in its holder.
- → Suspend the high-pressure hose into its holder.

Prior to extended storage periods, as during the winter, also observe the instructions in the Care section.

Frost protection

Caution

Protect the appliance and its accessories against frost.

The appliance and its accessories can get destroyed through frost if there are any water residues in them. To avoid damage to them:

- → Completely drain all water from the appliance: Switch the appliance on with detached high-pressure hose and detached water supply (max. 1 minute) and wait, until no more water exits at the high-pressure connection. Turn off the appliance.
- Store the appliance and the entire accessories in a frost-safe room.

Maintenance and care

⚠ Warning

Prior to any care or maintenance work, switch the appliance off and let the engine cool off. In order to avoid an inadvertent startup of the engine, pull off the spark plug. To avoid risks, all repairs and replacement of spare parts may only be carried out by the authorised customer service personnel.

Care

Prior to longer periods of storage, e.g. in the winter:

- Remove filter from suction hose for detergent and clean under running water.
- Pull out the sieve in the water connection using flat-nose pliers and clean under running water.

Adjust the air pressure in the tyres

- → Set the pressure reducer on the compressor at 30 PSI (206 kPa) before correcting the tire pressure.
- → Tire pressure should not exceed 30 PSI (206 kPa).

Pump maintenance

The pump is maintenace-free.

Engine maintenance

- → Park the machine on an even surface.
- → Carry out maintenance tasks to the motor according to the specifications provided in the operating instructions of the motor manufacturer.

Spare parts

Use only original KÄRCHER spare parts.

Technical specifications

Water connection				
Max. feed temperature	°C	40		
Min. feed volume	l/min	10		
Max. feed pressure	PSI	174		
	(MPa)	1,2		
Max. Suction height	m	0,5		
Motor				
Туре	Honda GCV 160			
Cylinder capacity	cm ³	161		
Motor; see operations instructions of the				
motor manufacturer				
Performance data				
Working pressure	PSI	2320		
	(MPa)	16		
Max. permissible pressure	PSI	2600		
	(MPa)	18		
Water flow rate	I/min	8,7		
Detergent flow rate	l/min	0,3		
Dimensions and weights				
Weight	kg	35		
Tyre pressure (max.)	PSI	30		
	(kPa)	206		

Subject to technical modifications!

Troubleshooting

You can rectify minor faults yourself with the help of the following overview. If in doubt, please consult the authorized customer service.

⚠ Caution

Remove the spark plug cable to prevent accidental ignition of the engine before making any repair.

Symptom	Cause	Solution		
Engine will not start	No gasoline	Fill gas tank		
	Choke is not in the correct position.	Slide choke lever out to closed		
		position.		
	Water pressure built up in the ma-	Squeeze the trigger to release		
	chine.	the pressure.		
	For additional engine problems refer to the engine manual.			
Unit does not reach	Diameter of garden hose is too	Replace with a larger garden		
high pressure.	small.	hose.		
	Water supply is restricted.	Check garden hose for kinks,		
		leaks and blockage.		
	Not enough inlet water supply.	Turn water on full force. Check		
		garden hose for kinks, leaks or		
		blockage.		
	Black detergent nozzle is attached.	Remove black detergent nozzle		
		and attach high pressure nozzle		
Output pressure	Not enough inlet water supply.	Turn water on full force. Check		
varies high and low.		garden hose for kinks, leaks or		
		blockage.		
	Pump is sucking air.	Check that hoses and fittings are		
		air tight. Turn off machine and		
		purge pump by squeezing trigger		
		gun until a steady flow of water		
		emerges through the nozzle.		
	Spray nozzle is obstructed.	Blow out or remove debris with a		
		fine needle.		
	Calcified gun, hose or spray wand.	Run distilled vinegar through de-		
		tergent suction tube.		

Symptom	Cause	Solution
No detergent.	Detergent suction tube not properly	Check connection.
_	connected to the machine.	
	Detergent is too thick.	Dilute detergent, for best results
		use Kärcher® detergent.
	Filter on detergent suction tube is	Run warm water through filter to
	clogged.	remove debris.
	Damaged or clogged detergent suc-	
	tion tube.	detergent suction tube.
	A high pressure nozzle is attached.	Replace with black detergent
		nozzle.
	Spray nozzle is obstructed.	Blow out or remove debris with
		fine needle.
Garden hose con-	Loose fittings.	Tighten fittings.
nection leaks.	Missing/worn rubber washer.	Insert new washer.
Spray wand leaks.	Spray wand not properly attached.	Turn the swivel nut of the gun
		clockwise until connection is
		tight.
	Broken o-ring.	Call Customer Support
Pump is noisy.	Pump is sucking air.	Check that hoses and fittings are
		air tight. Turn off machine and
		purge pump by squeezing trigger
		gun until a steady flow of water
		emerges through the nozzle.
Water leaks from	Loose fittings.	Tighten fittings.
pump (up to 10	Water seals are damaged or worn.	Call Customer Support
drops per minute is	Thermal protection device is activat-	
permissible).	ed.	auto reset. Do not run pump for
		more than 5 minutes without
		spraying.
Oil Drip.	Oil seals are damaged or worn.	Call Customer Support

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