

Model K 280 M

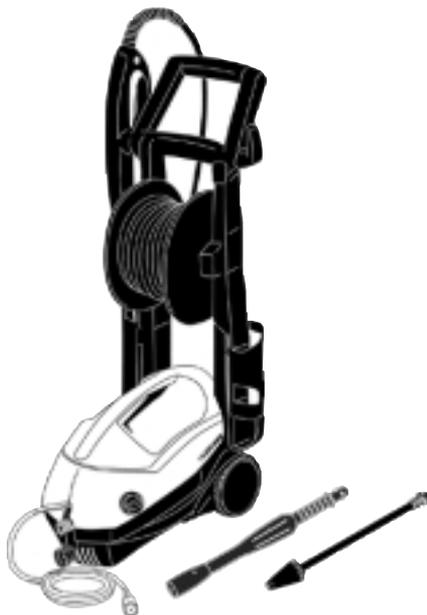
Part No. 1.189-205.0

High Pressure Washer Operator Manual

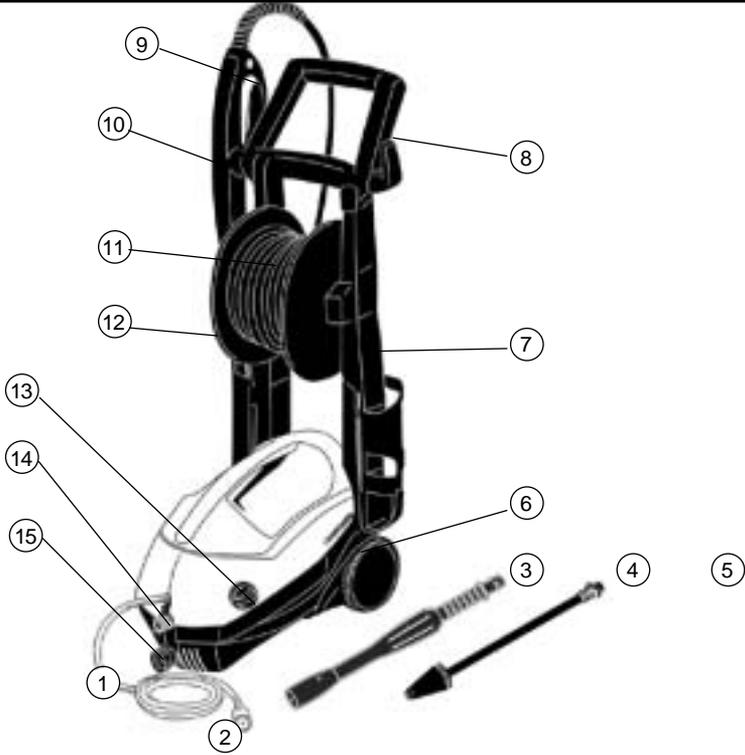
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Specifications

Operating pressure	1400 PSI
Water volume	1.5 GPM
Voltage	120 V
Amp draw	14 AMPS



Model K 280 M OVERVIEW



1 800-537-4129 page 1

Item Description

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Detergent suction tube 2. Detergent filter 3. Vario spray wand 4. Rotating spray wand 5. Wash Brush 6. Mobile adapter bracket with wheel (qty. 2) 7. Handle 8. Handle Extension 9. Trigger gun safety lock | <ul style="list-style-type: none"> 10. Trigger gun 11. High pressure hose 12. Hose Reel 13. On/Off switch 14. High pressure outlet 15. Water inlet 16. Package of 10 screws (not pictured) 17. Spray wand extension (not pictured) 18. Power cord with Ground Fault Circuit Interrupter (GFCI). (not pictured) |
|---|---|

NEVER!

- Never** point nozzle at people or animals.
- Never** drink alcohol or use drugs while operating this equipment.
- Never** operate while standing in water.
- Never** touch plug with wet hands.
- Never** let electrical connections rest in water.
- Never** operate pressure washer without the water turned on
- Never** use hot water

IMPORTANT PRECAUTIONS – Read First!



Safety Warnings

When using this product basic precautions should always be followed:

- Read all the instructions before using the product.
- High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, animals, electrical devices, or the machine itself.
- To reduce the risk of injury, do not operate the machine near children.
- Learn how to stop the machine and release pressure quickly. Be thoroughly familiar with the controls.
- Stay alert — watch what you are doing.
- Wear safety goggles.
- Do not use acids, solvents, or any other flammable material in this product. These products can cause physical injuries to the operator and irreversible damage to the machine. If you have questions regarding a chemical product to be used with this machine, please call Kärcher Customer Support at 800-537-4129.
- Do not operate the product when fatigued or under the influence of alcohol or drugs.
- Do not stand on unstable surfaces. Stand with both feet balanced at all times.
- To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.
- The Gun Safety Lock PREVENTS the trigger from accidentally being engaged. This safety feature DOES NOT lock trigger in the on position.

Extension Cords

Use a sufficient gauge: Up to 25 ft = 12/2 AWG; 25 to 50 ft = 10/2 AWG. Use only extension cords that are intended for outdoor use. These extension cords are identified by the marking "Acceptable for use with outdoor appliances; store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cord before using and replace if damaged. Do not abuse extension cord and do not yank on any cord

to disconnect. Keep cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord. If you are using an extension cord, it should always be completely unwound from the cable drum.

Ground Fault Circuit Interrupter Protection

This unit is supplied with a portable GFCI, UL indicates that the power cord has been investigated for compliance with the applicable provisions of UL 943, Third Edition (Standard for Ground Fault Circuit Interrupters) and other applicable standards. If power is interrupted in the line, the automatic GFCI will automatically reclose 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.

TEST - Plug the GFCI cord into a powered outlet. Push the TEST button and attempt to turn the unit on. This should result in the machine not running. If the GFCI tests okay, restore power by pushing the RESET button.

This Product Is Double Insulated

In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding method is provided on a double-insulated product, nor should a method for grounding be added to the product. Servicing a double-insulated product requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to the parts they replace. A double-insulated product is marked with the words, "DOUBLE INSULATED."



Caution

- Follow the maintenance instructions specified in the manual.
- This machine has been designed for use with cleaning detergent supplied or recommended by the manufacturer. The use of other cleaning detergents may affect the operation of the machine and void the warranty.

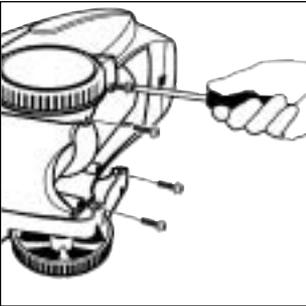
IMPORTANT PRECAUTIONS – continued

Water Supply (Cold Water Only)

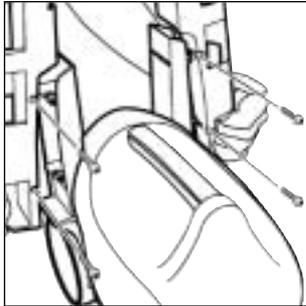
- Water hose must be at least 3/4 inch in diameter.
- Flow rate of water supply must not fall below 2.5 GPM (gallons per minute).
- Flow rate can be determined by running the water for one minute into an empty 5-gallon container.
- The water supply temperature must not exceed 104°F/40°C.
- Never use 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.

ASSEMBLY INSTRUCTIONS

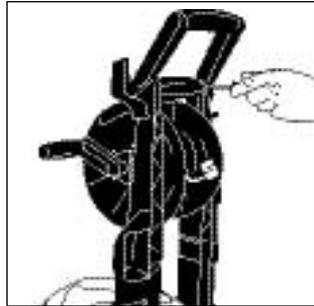
You will need a standard phillips head screw driver



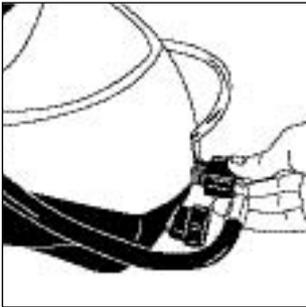
Step 1 Attach the mobile adapter brackets to the pressure washer. Align holes on the bottom of the pressure washer as shown and tighten the 4 long screws.



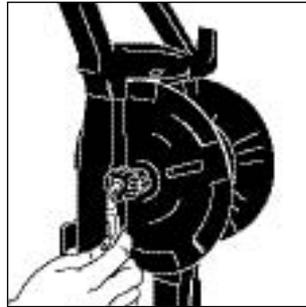
Step 2 Spread handle sides apart and align with slotted areas of mobile adapter brackets and snap into position. Tighten the 4 long screws.



Step 3 Attach the handle extension to the handle, align holes. Tighten the 2 smaller screws.



Step 4 Connect the hose reel high pressure hose extension to the unit's high pressure outlet.

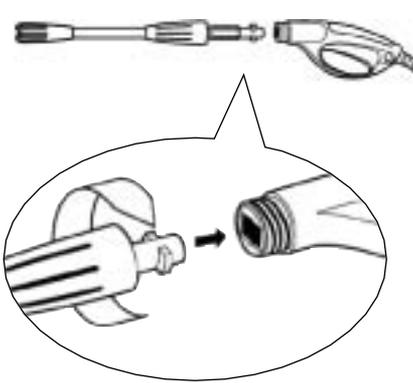


Step 5 Connect the hose reel high pressure hose extension to the hose reel fitting.

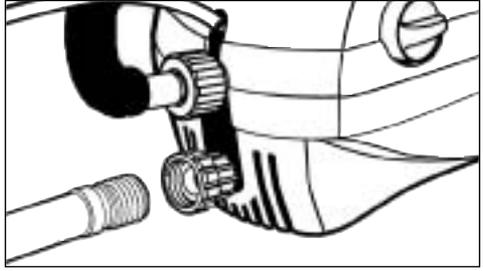


Step 6 Connect the high pressure hose to the hose reel outlet.

OPERATING INSTRUCTIONS

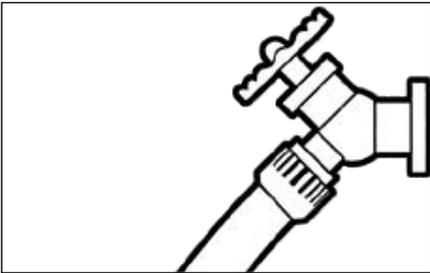


Step 1 Slide the spray wand extension into the gun. Turn the wand collar onto the gun threads until tight.

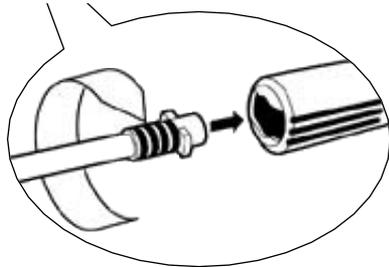


Step 2 Connect garden hose to unit's water inlet.

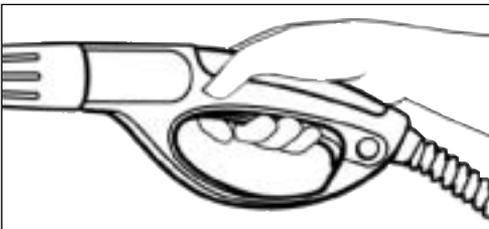
Step 3 Insert the choice into the wand extension. Press III against the spring tension and twist into the locked position.



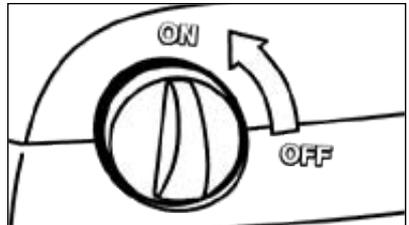
Step 4 Connect garden hose to the cold water source and turn water on completely.



WHEN OPERATING THE MACHINE BE SURE TO UNWIND THE HOSE COMPLETELY FROM THE HOSE REEL.

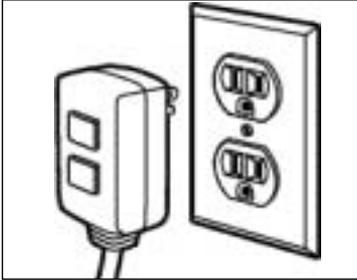


Step 5 Plug the power cord into the power outlet. Press "TEST", then press "RESET" to assure proper connection to power. Trigger the gun to eliminate trapped air, wait for a steady flow of water to emerge from the spray nozzle.

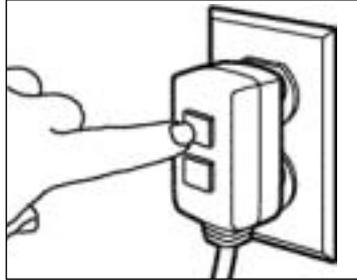


Step 6 Turn on the pressure washer. The motor starts only if the trigger of the gun is pulled and shuts off when the trigger is released.

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.

USING THE ACCESSORIES

The pressure washer has two fully automatic pressure settings, depending on the wand or nozzle installed.

High/low spray wand

The Vario spray wand allows you to adjust the cleaning pressure. To clean at maximum pressure, the Vario wand must be positioned to the high pressure setting (+). To apply detergent, the wand must be positioned to the low pressure setting (-).

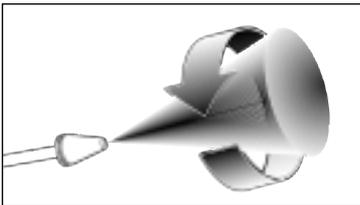


For higher pressure turn wand collar in the plus (+) direction.



For lower pressure turn wand collar in the minus (-) direction.

Rotating spray wand



This wand features a 0° pencil jet which rotates 360° for maximum dirt cutting action, effectively increasing cleaning performance up to 50%. This wand combines the cleaning performance of a 0° pencil jet with the surface coverage of a wide angle nozzle. Not recommended for soft materials, siding, painted surfaces, decks or autos.

Wash brush

This brush is ideal for removing stubborn dirt and stains from finished surfaces.



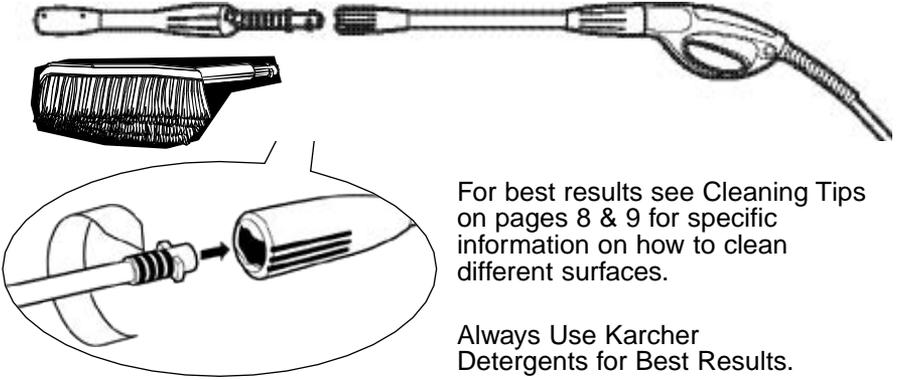
Use with detergents only.



WARNING TO AVOID SERIOUS INJURY, NEVER POINT SPRAY NOZZLE AT YOURSELF, OTHER PERSONS OR ANIMALS

WORKING WITH DETERGENTS

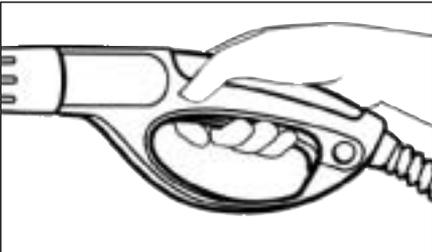
Karcher Pressure washers operate at two pressures. The high pressure is used for cleaning, you cannot apply detergents when working at high pressure. To apply detergents you must be operating at low pressure.



Step 1 Install the Wash brush or the Vario spray wand. Set the Vario spray wand to the low pressure setting (-) by turning the wand collar. The wand must be set in the low pressure (-) position to apply detergents.



Step 2 Fill a container with Karcher detergent. Place the filter end of detergent suction tube into the container.



Step 3 Turn on the pressure washer. 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.

For best results see Cleaning Tips on pages 8 & 9 for specific information on how to clean different surfaces.

Always Use Karcher Detergents for Best Results.

Karcher biodegradable detergents are specially formulated to protect the environment and your pressure washer. Special formula won't clog the suction tube filter and will protect the internal parts of the pressure washer for a longer life. For Karcher Detergents, check your retailer or call:

In USA Call:
1-800-537-4129
or visit our website:
www.karcher-usa.com

The following Karcher detergents are available:

- Vehicle Wash
- House Wash
- Degreaser
- Deck Wash
- All Purpose Cleaner



Caution

Never use:

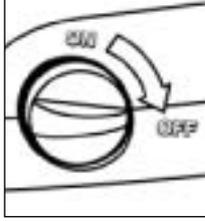
- Bleach, Chlorine products and other corrosive chemicals
- Liquids containing solvents (i.e., paint thinners, gasoline, oils)
- Tri-sodium phosphate products
- Ammonia products
- Acid-based products

These chemicals will harm the unit and will damage the surface being cleaned.

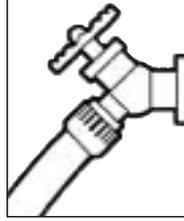
SHUTTING DOWN & CLEAN-UP



Step 1 Remove detergent suction tube from container and insert into 1 gallon of fresh water. Siphon water at low pressure for one minute.



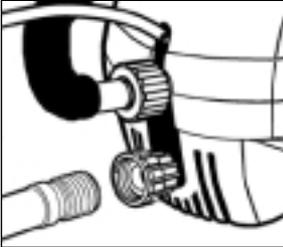
Step 2 Turn the switch to off position and unplug cord from outlet.



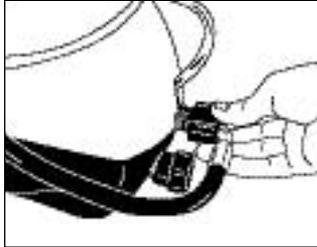
Step 3 Turn off the water source.



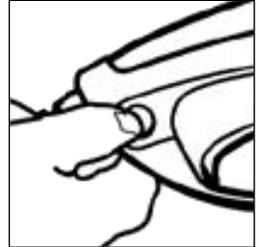
Step 4 Press trigger to release water pressure.



Step 5 Disconnect the garden hose from the water inlet on the unit.



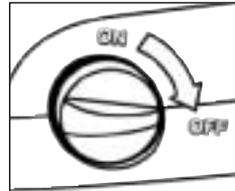
Step 6 Disconnect the hose reel hose extension from the high pressure outlet, wind the gun hose on the reel and engage the gun safety lock.



TAKING A BREAK... five minutes or more



Step 1
Engage gun safety lock.



Step 2
Turn pressure washer to off position.

WINTERIZING AND LONG-TERM STORAGE

1. Disconnect all water connections.
2. Turn on the machine for a few seconds, until the water which had remained in the pump exits. Turn off immediately.
3. Do not allow high pressure hose to become kinked.

4. Store the machine and accessories in a room which does not reach freezing temperatures.

Caution: Failure to follow the above directions will result in damage to the pump assembly and accessories.

CLEANING TIPS

Deck Cleaning

(with or without detergent)

Pre-rinse deck and surrounding area with fresh water. If using Kärcher Deck Wash, place detergent suction tube directly into cleaning solution and apply to surface at low pressure. For best results, limit your work area to smaller sections of approximately 25 square feet. Allow Kärcher Deck Wash to remain on surface 1-3 minutes. Do not allow detergent to dry on surface. Rinse at high pressure in a long sweeping motion keeping the spray nozzle approximately 3-6 inches from the cleaning surface. Always clean from top to bottom and from left to right. When moving on to a new section of the cleaning surface, be sure to overlap the previous section to eliminate stop marks and ensure a more even cleaning result.

Caution: Do not use rotating nozzle spray wand on wood surface as it may cause damage.

House Siding

(with or without detergent)

Pre-rinse cleaning surface with fresh water. If using Kärcher House Wash, place detergent suction tube directly into cleaning solution and apply to surface at low pressure (for best results, limit your work area to sections of approximately 6 feet and always apply detergent from bottom to top). Allow Kärcher House Wash to remain on surface 1-3 minutes. Do not allow detergent to dry on surface, if surface appears to be drying, simply wet down surface with fresh water. If needed, use special Wash Brush Attachment to remove stubborn dirt. Rinse at high pressure from top to bottom in an even sweeping motion keeping the spray nozzle approximately 6 inches from the cleaning surface.

Caution: Do not use rotating nozzle spray wand on siding as it may cause damage.

Cement Patios, Brick and Stone

(with or without detergent)

Pre-rinse cleaning surface with fresh water. If using Kärcher All Purpose Cleaner, place detergent suction tube directly into cleaning solution and apply to surface at low pressure. For best results, limit your work area to smaller sections of approximately 25 square feet. Allow Kärcher All Purpose Cleaner to remain on surface 1-3 minutes. Do not allow detergent to dry on surface. Rinse at high pressure in a sweeping motion keeping the spray nozzle approximately 3-6 inches from the cleaning surface. Always clean from top to bottom and from left to right. For removing extremely stubborn stains, use Kärcher Rotating Nozzle Spray Wand.

Cars, Boats & Motorcycles

(with or without detergent)

Pre-rinse vehicle with fresh water. If using Kärcher Vehicle Wash, place detergent suction tube directly into cleaning solution and apply to surface at low pressure. For best results, clean one side of vehicle at a time and always apply detergent from bottom to top, do not allow detergent to dry on surface. If needed, use special Wash Brush Attachment to remove stubborn dirt. Rinse at high pressure in a sweeping motion keeping the spray nozzle approximately 6-8 inches from the cleaning surface (distance should increase when rinsing pin-striping or other sensitive surfaces). Always clean from top to bottom and from left to right. For best results, wipe surface dry with a chamois or soft dry cloth.

Caution: Do not use rotating nozzle spray wand on vehicles as it may cause damage.

CLEANING TIPS – continued

Barbecue Grills, Outdoor Power Equipment & Gardening Tools

(with or without detergent)

Pre-rinse cleaning surface with fresh water. If using Kärcher All Purpose Cleaner or Degreaser, place detergent suction tube directly into cleaning solution and apply detergent at low pressure. Allow Kärcher detergent to remain on surface 1-3 minutes. Do not allow detergent to dry on surface. Rinse at high pressure keeping the spray nozzle approximately 3-6 inches from the cleaning surface. For removing extremely stubborn dirt, it may be necessary to move the spray nozzle even closer to the surface for greater dirt cutting action. To remove caked on mud from garbage cans, lawn mower blades, wheel barrels or other non-sensitive metal surfaces, you may want to use the Kärcher Rotating Nozzle Spray Wand.

Caution: Do not use rotating nozzle spray wand on cloth, plastic or other sensitive surfaces as it may cause damage.

Patio & Lawn Furniture

(with or without detergent)

Pre-rinse furniture and surrounding area with fresh water. If using Kärcher All Purpose Cleaner, place detergent suction tube directly into cleaning solution and apply to surface at low pressure. Allow Kärcher All Purpose Cleaner to remain on surface 1-3 minutes. Do not allow detergent to dry on surface. If needed use special Wash Brush Attachment to remove stubborn dirt. Rinse at high pressure in a sweeping motion keeping the spray nozzle approximately 3-6 inches from the cleaning surface. For best results, clean from top to bottom and from left to right. Caution: Do not use rotating nozzle spray wand on patio or lawn furniture as it may cause damage.

Recommendations

- Before cleaning any surface an inconspicuous area should be cleaned to test spray pattern and distance for maximum cleaning results.
- If painted surfaces are peeling or chipping, use extreme caution as pressure washer may remove the loose paint from the surface.

OPTIONAL CLEANING ACCESSORIES

Optional cleaning accessories are available to further enhance your cleaning capabilities: See accessories order form for product descriptions and ordering instructions.

- Wash Brush
- House Washing Wand
- Extension Wand
- Dirtblaster® Wand
- Flexible Spray Wand
- Underbody Spray Wand
- Telescopic Spray Wand
- Pipe Drain Cleaner
- Detergent Foamer Attachment
- Water Suction Hose
- Extension Hose 25'
- Rotating wash brush

In USA Call:
1-800-537-4129
or visit our website: www.karcher-usa.com

TROUBLESHOOTING

Disconnect the machine from the power source before making any repair.

Symptom	Cause	Solution
Motor will not start	On/Off switch is in the "OFF" position.	Turn switch to the "ON" position
	Power cord is not plugged in.	Plug in power cord.
	Extension cord is too long. Extension cord is not proper gauge. Extension cord is damaged.	Replace extension cord with either a 25 ft. 12/2 gauge cord or a 50 ft. 10/2 gauge cord.
	Electrical outlet does not supply adequate power.	Try a different outlet.
	GFCI or circuit breaker tripped	Reset breaker (power supply) or ground fault circuit interrupter.
Unit does not reach high pressure.	Diameter of garden hose is too small.	Replace with a 3/4 inch garden hose.
	Water supply is restricted.	Check garden hose for kinks, leaks and blockage.
	Not enough inlet water supply.	Open water source full force.
	Water inlet filter is clogged.	Remove filter and rinse out in warm water.
	Wash brush is attached.	Attach vario spray wand
Output pressure varies high and low.	Not enough inlet water supply.	Turn water on full force. Check 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.
	Water inlet filter is clogged.	Remove filter and rinse out in warm water.
	Discharge nozzle is obstructed.	Blow out or remove debris with a fine needle.
	Calcified gun, hose or spray wand.	Run distilled vinegar through detergent suction tube.

TROUBLESHOOTING – continued

Symptom	Cause	Solution
No detergent.	Detergent suction tube not properly connected to the machine.	Check connection.
	Detergent is too thick.	Dilute detergent, for best results use Kärcher detergent.
	Filter on detergent suction tube is clogged.	Run warm water through filter to remove debris.
	Damaged or clogged detergent suction tube.	Remove obstruction or replace detergent suction tube.
	Spray wand is on high pressure setting.	Adjust the spray wand to low pressure setting.
	Discharge nozzle is obstructed.	Blow out or remove debris with fine needle.
Garden hose connection leaks.	Loose fittings.	Tighten fittings.
	Missing/worn rubber washer.	Insert new washer.
Spray wand or Spray wand extension leaks.	Spray wand not properly attached.	Insert the spray wand into the spray wand extension. Carefully press in against the spring tension and twist into the locked position.
	Spray wand extension not properly attached.	Slide the spray wand extension into the gun. Turn the wand collar clockwise onto the gun threads until tight.
	Broken o-ring or plastic insert.	Call Kärcher customer service hotline and order repair kit (part no. 2.883-111.0).
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 pump (up to 10 drops per minute is permissible).	Loose fittings.	Check that all fittings are tight.
	Water seals are damaged or worn.	Call service center.
Oil Drip.	Oil seals are damaged or worn.	Call service center.

If you encounter any additional difficulties not listed, please call our service center for help.

In USA Call:
1-800-537-4129
 or visit our website:
www.karcher-usa.com