

# HIGH PRESSURE WASHER OPERATOR MANUAL

Serial no.

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### Safety Alert Symbols

### $\triangle$ DANGER

indicates "an imminently hazardous situation which, if not avoided, will result in death or serious injury."

### **△** WARNING

indicates "a potentially hazardous situation which, if not avoided, could result in death or injury."

# **△** CAUTION

indicates "a potentially hazardous situation which, if not avoided, may result in minor or moderate injury" or in property damage incidents.

opcomoations -		
Operating pressure	1400 PSI	
Water volume	1.3 GPM	
Amp draw	13 AMPS	
Voltage	120 V	
Part No.	1.601-501.0	

Specifications

### Kärcher Customer Support USA

Call: **1-800-537-4129** for help or visit our website:

www.karcher-usa.com/home
Please take a moment to register your
presure washer online at
www.karcher-usa.com/warranty

### Kärcher Customer Service CDN

Call: **1-800-465-4980** for help or visit our website: **www.karcher.ca** 

### Kärcher Customer Support Mexico

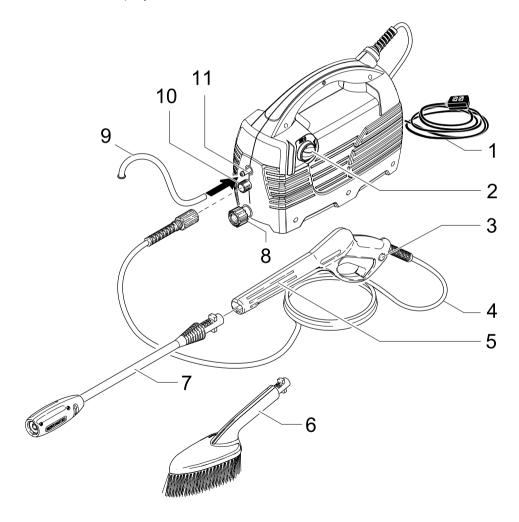
Call: **01-800-024-13-13** for help or visit our website: **www.karcher.com.mx** 

# **MODEL OVERVIEW**

- 1 Power cord with Ground Fault Circuit Interrupter (GFCI)
- 2 On/OFF switch
- 3 Trigger gun safety lock
- 4 High pressure hose
- 5 Trigger gun
- 6 Wash brush
- 7 Vario Power Spray wand

- 8 Water inlet with garden hose connector
- 9 Detergent suction tube with filter
- 10 High pressure outlet
- 11 Connector for detergent suction tube

For household use only!



# **IMPORTANT SAFETY INSTRUCTIONS**



### WARNING!

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

- Read all the instructions before using the product.
- To reduce the risk of injury, close supervision is necessary when a product is used near children.
- Know how to stop the product and bleed pressures quickly. Be thoroughly familiar with the controls.
- Stay alert watch what you are doing.
- Do not operate the product when fatigued or under the influence of alcohol or drugs.
- Keep operating area clear of all persons.
- Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- Follow the maintenance instructions specified in the manual.
- 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.
- Risk of Injection or Injury Do Not Direct Discharge Stream At Persons.
- High pressure jets can be dangerous if misused. The jet must not be directed at persons, animals, electrical devices, or the machine itself.
- Wear safety goggles.
- Do not use acids and solvents in this product. These products can cause

- physical injuries to the operator and irreversible damage to the machine.
- To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.
- The Trigger Gun Safety Lock PRE-VENTS the trigger from accidentally being engaged. This safety feature DOES NOT lock trigger in the ON position.
- Do not use extension cord with this unit.

### **△ WARNING**

To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.

### SERVICING OF A DOUBLE-INSULATED PRODUCT

In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated product, nor should a means 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 doubleinsulated product is marked with the words "double-insulation" or "double-insulated". The symbol "I" may also be marked on the product.

### GROUND FAULT CIRCUIT INTER-RUPTER PROTECTION

This product is supplied with a Ground Fault Circuit Interrupter (GFCI) built into the power cord plug. This device pro-

vides 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 (Cold Water Only)

#### **△** 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.

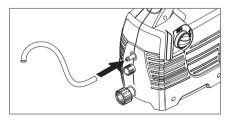
- Garden hose must be at least 5/8 inch in diameter.
- Flow rate of water supply must not fall below 2 GPM (gallons per minute).
- Flow rate can be determined by running the water for one minute into an empty 5-gallon container.
- The water supply temperature must not exceed 104°F/40°C.
- Never use the 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.

### SAVE THESE INSTRUCTIONS!!

# **ASSEMBLY INSTRUCTIONS**

#### → STEP 1:

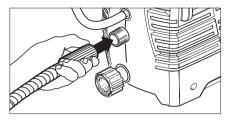
Connect the detergent suction tube to the pressure washer.



# **OPERATING INSTRUCTIONS**

### → STEP 1:

Connect the high pressure hose to the unit's high pressure outlet.



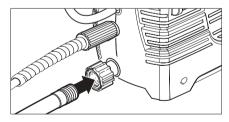
### → STEP 2:

Insert the spray wand of your choice into the trigger gun. Press in against the spring tension and twist into locked position.



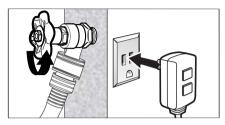
### → STEP 3:

Connect garden hose to unit's water inlet.



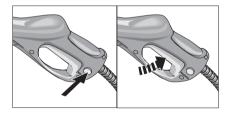
### → STEP 4:

Connect garden hose to the cold water source and turn water on completely. Plug the power cord into the power outlet.



### → STEP 5:

Unlock the Safety lock. Trigger the gun to eliminate trapped air, wait for a steady flow of water to emerge from the spray nozzle.



### → STEP 6:

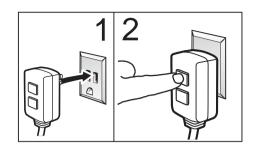
Turn on the high pressure washer (I). The motor starts only if the trigger of the gun is pulled and shuts off when the trigger is released.



# **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**

### **MARNING**

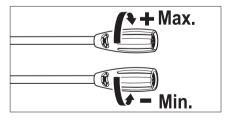
To avoid serious injury never point spray nozzle at yourself, other persons or animals

### Vario Power Spray Wand

The Vario Power Spray Wand allows you to adjust the cleaning pressure. To clean at maximum pressure, the wand must be positioned to the high pressure setting (Max).

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

To apply detergent, the wand must be positioned to the lower pressure setting (Min).



### Wash Brush

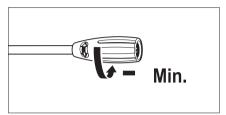
This brush is ideal for removing stubborn dirt and stains from finished surfaces. Use with detergents possible.

# **WORKING WITH DETERGENTS**

# Detergents can only be applied at low pressure (Min.).

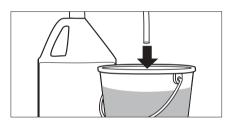
### → STEP 1:

Install the Vario Power Spray Wand. Set the spray wand to the low pressure setting (Min.).



#### → STEP 2:

Fill a container with Kärcher detergent. Place the filter end of detergent suction tube into the container.



### → STEP 3:

Turn on the pressure washer (I). 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.

### → STEP 4:

Always draw fresh water through the detergent suction tube when done, to rinse/flush any remaining detergents from the injection system.

# For best results see Cleaning Tips for specific information on how to clean different surfaces.

### **△** CAUTION

This unit has been designed for use with cleaning detergents recommended by the manufacturer. The use of other cleaning detergents may affect the operation of the machine and void the warranty.

# Always Use Kärcher Detergent for Best Results

Kärcher biodegradable detergents are specially formulated to protect the environment and your pressure washer. The special formula won't clog the suction tube filter and will protect the internal parts of the pressure washer for a longer life. For Kärcher Detergents, check your retailer or visit our website: www.karcher-usa.com/home

# The following Kärcher detergents are available:

# One Gallon ready to use

- All Purpose & Vehicle Cleaner
- Deck & Patio Cleaner
- Heavy Duty Degreaser
- Exterior House 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.

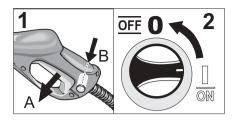
# **TAKING A BREAK** .. five minutes or more

### → STEP 1:

Release trigger and engage gun safety lock.

### → STEP 2:

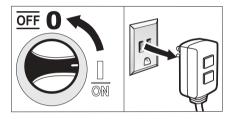
Turn pressure washer to OFF (O) position.



# **SHUTTING DOWN & CLEAN-UP**

### → STEP 1:

Turn the switch to OFF (0) position and unplug cord from outlet.

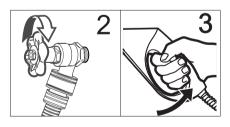


### → STEP 2:

Turn off the water source.

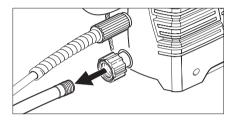
### → STEP 3:

Press trigger to release water pressure.



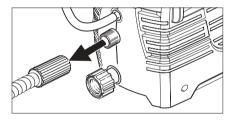
### → STEP 4:

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



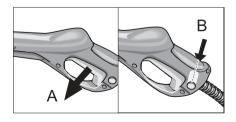
### → STEP 5:

Disconnect the high pressure hose from the high pressure outlet.



#### → STEP 6:

Release trigger and engage gun safety lock.



# 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. DO NOT store near furnace or other sources of heat as it may dry out the pump seals.

### **△** CAUTION

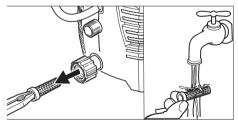
Failure to follow the above directions will result in damage to the pump assembly and accessories.

Kärcher also recommends the regular practice of using a pump protector like "Kärcher Pump Guard" to help during storage in the winter months.

# **CARE AND MAINTENANCE INSTRUCTIONS**

### Cleaning the water inlet filter

Pull out the water inlet filter with flatnose pliers and rinse out in warm water. **Note:** if you pull out the water inlet filter the sealing gets out too. Take care to mount it again after cleaning the filter.



### Maintenance

The unit is maintenance-free.

# **CLEANING TIPS**

### **Deck Cleaning**

(with or without detergent). Pre-rinse deck and surrounding area with fresh water, If using Kärcher Deck Wash, apply to surface at low pressure. For best results, limit your work area to smaller sections of approximately 25 square feet. Allow 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.

# **House Siding**

(with or without detergent). Pre-rinse cleaning surface with fresh water. If using Kärcher Pressure Wash, 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 Pressure 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 (not included) 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.

### Cement Patios, Brick and Stone

(with or without detergent). Pre-rinse cleaning surface with fresh water. If using Kärcher Pressure Wash or Degreaser, apply to surface at low pressure. For best results, limit your work area to smaller sections of approximately 25 square feet. Allow Pressure Wash or Degreaser 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 the Dirthlaster Nozzle.

### Cars, Boats & Motorcycles

(with or without detergent). Pre-rinse vehicle with fresh water. If using Kärcher Touchless Vehicle Wash, 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 (not included) 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.

# Barbecue Grills, Outdoor Power Equipment & Gardening Tools

(with or without detergent). Pre-rinse cleaning surface with fresh water. If using Kärcher Pressure Wash or Degreaser, apply detergent at low pressure. Allow Pressure Wash 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.

### Patio & Lawn Furniture

(with or without detergent). Pre-rinse furniture and surrounding area with fresh water. If using Pressure Wash, apply to surface at low pressure. Allow Pressure Wash to remain on surface 1-3 minutes. Do not allow detergent to dry on surface. If needed use special Wash Brush Attachment (not included) 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.

#### 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.
- When using on surfaces which might come in contact with food, flush surfaces with plenty of drinking water.
- For additional cleaning tips, visit our website at www.karcher-usa.com/ home

# Troubleshooting

# **△** CAUTION

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"	Turn switch to the "ON" (I) po-
	(O) position.	sition
	Power cord is not plugged in.	•
	Electrical outlet does not sup-	Try a different outlet.
	ply adequate power.	
	Tripped circuit breaker.	Switch off pressure washer.
		GFCI will reset once the tem-
		perature of the unit drops.
Unit does not reach	Diameter of garden hose is	Replace with a 5/8 inch or lar-
high pressure.	too small.	ger garden hose.
	Water supply is restricted.	Check garden hose for kinks,
		leaks and blockage.
	Not enough inlet water supp-	Open water source full force.
	ly.	
	Water inlet filter is clogged.	Remove filter and rinse out in
		warm water.
		Turn spray wand to high pres-
O t t	re position.	sure position.
Output pressure va-	1.	Turn water on full force.
ries high and low.	ly.	Check garden hose for kinks, leaks or blockage.
	Dump is quaking air	Check that hoses and fittings
	Pump is sucking air.	are air tight. Turn off machine
		and purge pump by squee-
		zing trigger gun until a steady
		flow of water emerges throu-
		gh the nozzle.
	Water inlet filter is clogged.	Remove filter and rinse out in
	vater met mer ie elegged.	warm water.
	Discharge nozzle is obstruc-	Blow out or remove debris
	ted.	with a fine needle.
	Calcified gun, hose or spray	Run distilled vinegar through
	wand.	detergent suction tube.

Symptom	Cause	Solution
No detergent.	Detergent suction tube not	Check connection.
	properly connected to the ma-	
	chine.	
	Detergent is too thick.	Dilute detergent, for best re-
		sults use Kärcher detergent.
	Filter on detergent suction	Run warm water through filter
	tube is clogged.	to remove debris.
	Damaged or clogged deter-	Remove obstruction or repla-
	gent suction tube.	ce detergent suction tube.
	Spray wand is in high pressu-	Turn spray wand tip to low
	re position.	pressure position.
	Discharge nozzle is obstruc-	Blow out or remove debris
	ted.	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 atta-	Insert the spray wand into the
	ched.	trigger gun. Carefully press in
		against the spring tension
		and twist into the lokked posi-
		tion.
	Broken o-ring or plastic insert.	
Pump is noisy.	Pump is sucking air.	Check that hoses and fittings
		are air tight. Turn off machine
		and purge pump by squee-
		zing trigger gun until a steady
		flow of water emerges throu-
		gh the nozzle.
Water leaks from	Loose fittings.	Check that all fittings are
pump (up to 10 drops		tight.
per minute is permis-		Call Customer Support
sible).	worn.	
Oil Drip.	Oil seals are damaged or	Call Customer Support
	worn.	

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If you encounter any additional difficulties not listed, please call

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