



KÄRCHER[®]

Model HD 2701

Part No. 1.194-200.0

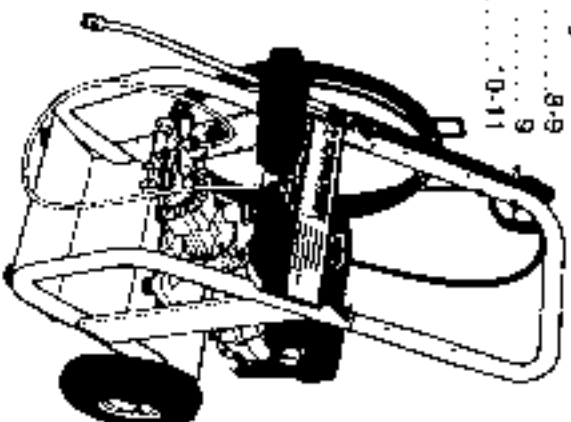
Model HD 3101

Part No. 1.187-117.0

High Pressure Washer Operator Manual

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Specifications

Model HD 2701

Engine

Max. operating pressure

Max. water volume

Maximum water inlet temperature

7 HP Robin/Subaru

2700 PSI

2.8 GPM

104° Fahrenheit

Model HD 3101

Engine

Max. operating pressure

Max. water volume

Maximum water inlet temperature

9 HP Robin/Subaru

3100 PSI

3.1 GPM

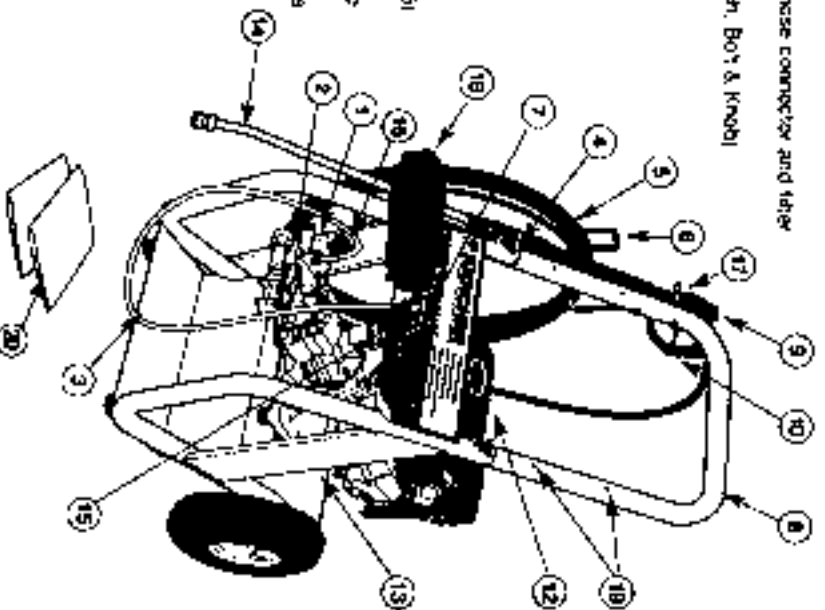
104° Fahrenheit

Model HD 2701/3101 OVERVIEW

Item	Description
1	High pressure outlet
2	Water inlet with garden hose connector and trigger
3	Detergent suction tube
4	Knob assembly (two each, Bot & Knob)
5	High pressure hose
6	Hose storage frame
7	Detergent trigger
8	Handle
9	Trigger gun
10	Trigger gun safety lock
11	Put start (not pictured)
12	Gas tank
13	Oil fill cap
14	Spray wand with quick connect adapter
15	Oil or connect nozzles (5)
16	Pressure control
17	Gun/hose storage handle
18	Detergent tray
19	Horizontal mounting holes
20	Operator manuals

Features:

- Thermal release valve



NEVER!

- Never** point nozzle at people or animals
- Never** drink alcohol or use drugs when operating this eqy. piece!
- Never** spray electrical connections, electrical outlets or fixtures.
- Never** add fuel with the engine running or operate where fuel has been spilled.
- Never** touch hot surfaces or allow accessories to contact hot surfaces.
- Never** operate in an enclosed space, exhaust fumes are dangerous.
- Never** operate near utilities with open flames.
- 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.
- **Fire hazard:** Do not add fuel with the engine running. Do not operate if fuel has been spilled. Instead, move the machine to a different location and burn/creaking sparks.
- Operate and fuel machine in a well ventilated area, free of devices featuring an open pilot or flame such as boilers, water heaters, etc.
- 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.
- Wear safety goggles.
- Do not use acids, alkalis, sovents, or any flammable material in the product. These products can cause physical injuries to the operator and irreversible damage to the machine.
- The machine has hot surfaces which can cause burns. Operate the unit in a safe environment and away from children.
- Do not allow the high pressure hoses to come into contact with the muffler guard.
- Do not leave the machine running unattended.
- Learn how to stop the machine and release pressure 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.
- Do not stand on unstable surfaces. Stand with both feet balanced at all times.
- Avoid rearing the machine on its side.
- The Gun Safety Lock PREVENTS the trigger from accidentally being engaged. This safety feature DOES NOT lock trigger in the on position.



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 3.5 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 clean a water contaminated with solvents, i.e. paint thinners, gasoline, oil, etc.
- Always prevent debris from being drawn into the unit by using a clean water source.

We strongly recommend that this high pressure washer not be left running for periods of 5 minutes or longer without the trigger gun being engaged.

This Karcher high pressure washer is equipped with thermal protection to extend the life of your pressure washer. The thermal protector will automatically activate at a predetermined high temperature & act as a safety feature before resuming. This ensures that the pump does not become damaged.

⚠ Caution

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

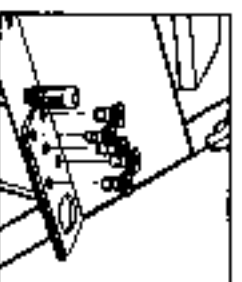
ASSEMBLY INSTRUCTIONS



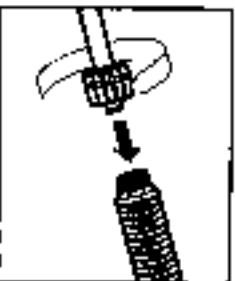
Step 1 Attach the handle to the frame of the pressure washer. Align holes, insert bolts, and tighten with knurled



Step 2 Attach the gun/hose storage handle.



Step 3 Place the quick connect nozzle in the nozzle holder.



Step 4 Attach the wind loaded collar of the wand to the spray gun.



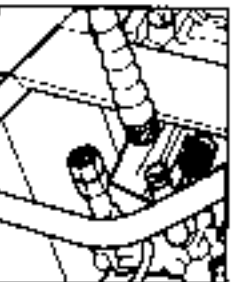
Step 5 Pull the spring loaded collar of the wand back to insert your choice of quick connect nozzle.



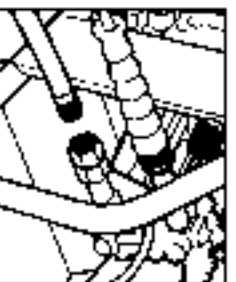
Step 6 Release the collar and push the nozzle until the collar clicks. Pull the nozzle to make sure it is seated properly.



Step 7 Attach the high pressure hose to the spray gun.



Step 8 Connect the high pressure hose to the unit's high pressure outlet.

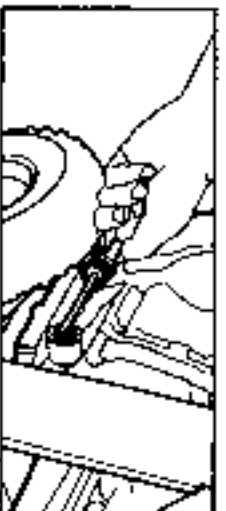


Step 9 Connect the garden hose to unit's water inlet.

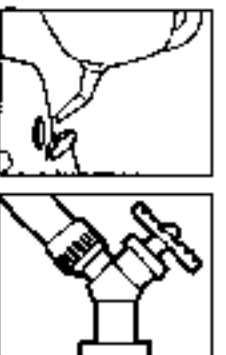
Important! Do not run the engine with a high or low oil level as this can cause engine damage. If you have the User questions regarding the engine, please refer to the engine's operating manual included with the unit.

You are now ready to operate your Kärcher Pressure Washer

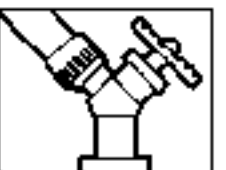
OPERATING INSTRUCTIONS



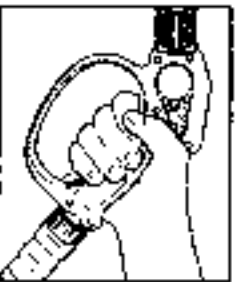
Step 1 Check oil level. Oil level should be low with the bottom of the oil filler neck. Be sure the magnet in the oil filler neck is clean. Refer to the engine's operating manual for seasonal guidelines. We recommend that this oil be changed after the first 5 hours of use, then once every 50 hours.



Step 2 Fill gas tank with unleaded gasoline. Do not use leaded gasoline.



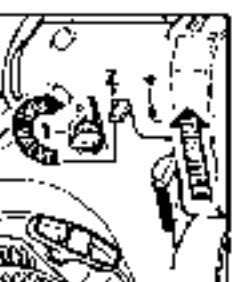
Step 3 Connect garden hose to the cold water source and turn water on completely. Never use hot water.



Step 4 Trigger the gun to allow air to flow through the spray lance to a steady flow of water to arrive from the spray lance.



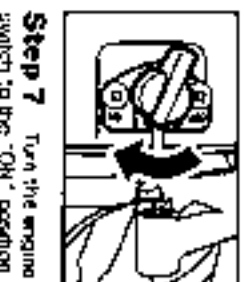
Step 5 Slide the throttle lever to the left to the "CLOSED" position. In a warm engine, leave the throttle over the open position.



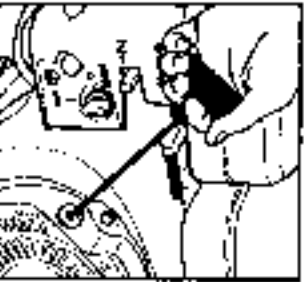
Step 6 Model HD 2701 Turn the fuel valve to the "ON" position. Slide the throttle lever left about 1/3 of the way toward the last position.



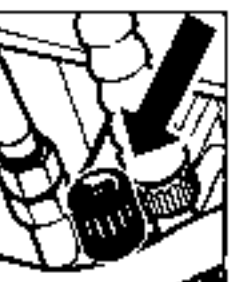
Step 6 Model HD 3101 Slide the fuel valve to the "ON" position. Slide the throttle lever left about 1/3 of the way toward the last position.



Step 7 Turn the engine switch to the "ON" position.



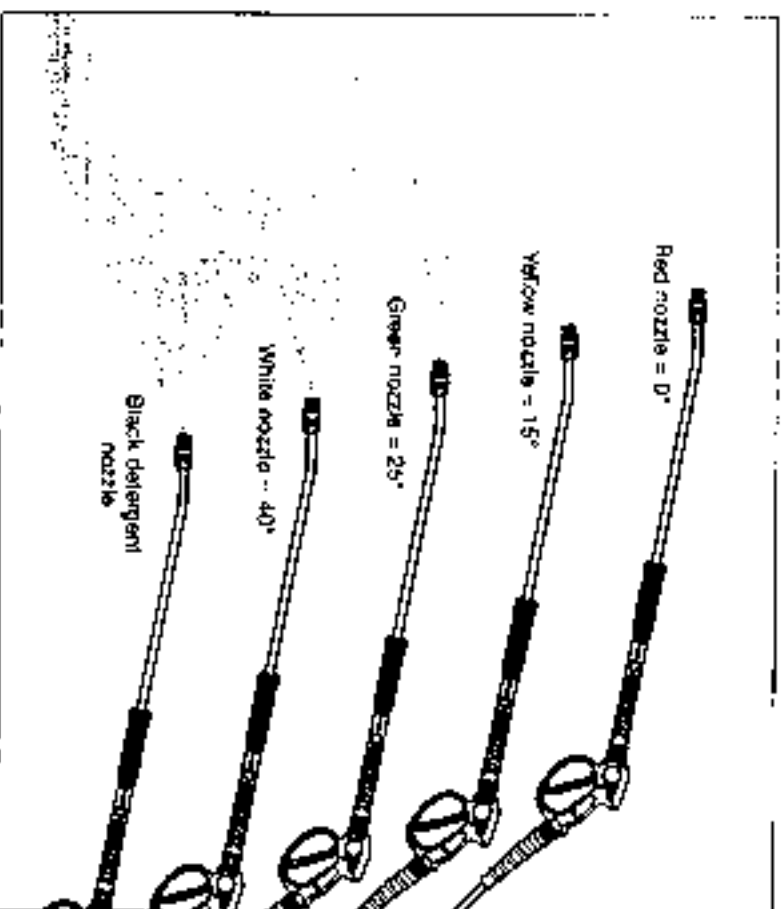
Step 8 Pull the starter handle. If the engine fails to start after 3 pulls, squeeze the "TRIGGER" gun to release pressure, and repeat step. After the engine is warm and running smoothly, slide the choke lever to the right (open) and throttle to the left (fast).



Step 9 Adjust pressure control to desired setting.

USING THE ACCESSORIES

The five 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 rubber nozzle holder, which is provided on the front of the machine.

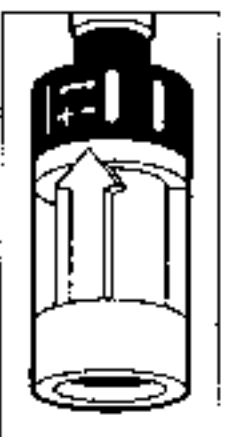


⚠ WARNING
TO AVOID SERIOUS INJURY,
NEVER POINT SPRAY NOZZLE
AT YOURSELF, OTHER PER-
SONS OR ANIMALS.

WORKING WITH DETERGENTS

Detergents can only be applied with the black nozzle.

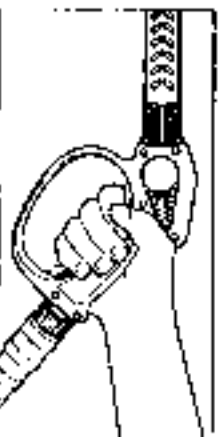
Step 1 Install the black quick-connect low pressure nozzle for detergent application at low pressure.



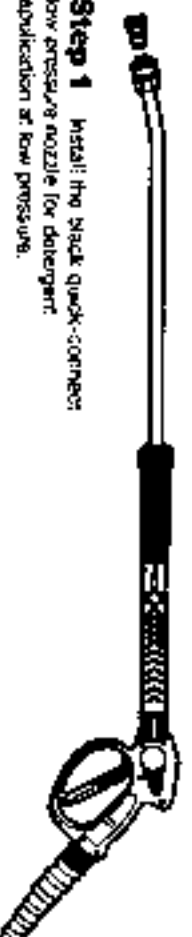
Step 2 Adjust the liter end of the detergent tube for light H- or medium H-1 detergent coverage.



Step 3 Fill a container with Kärcher detergent. Place the fiber end of detergent suction tube into the detergent.



Step 4 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.



For best results see **Cleaning Tips** on pages 8 & 9 or included cleaning guide for specific information on how to clean different surfaces. Always Use Kärcher Detergents for Best Results.

Kärcher biodegradable detergents are specially formulated to protect the environment and your pressure washer. This 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 call:

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

The following Kärcher detergents are available:

ADJANTS (ready to use)	TARGETS (concentrated)
Vehicle Wash	All Surfaces
House Wash	Degreaser
Engineer	Deck and Pave
Clean Wash	Windows and Siding
All Purpose Cleaner	Vehicle Wax

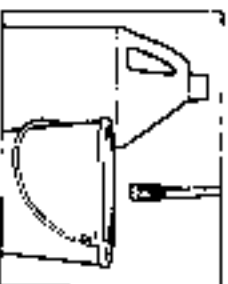
⚠ Caution

Never use:

- Bleach, Chlorine products and other corrosive chemicals
- Liquids containing solvents (i.e., paint thinners, gasoline, oil)
- 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



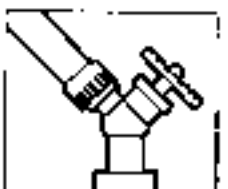
Step 1 Remove detergent suction tube from container and reset into original position. Set on water. Set on water at low pressure for one minute.



Step 2 Turn off the engine.



Step 3
HO2701 - Turn fuel valve to the "OFF" position.
HO3101 - Turn fuel valve to the "OFF" position.



Step 4 Turn off water supply.



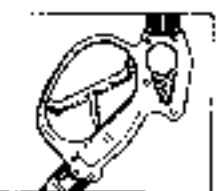
Step 5 Press trigger to release water pressure.



Step 6 Disconnect garden hose from water inlet on the unit.



Step 7 Disconnect high pressure hose from high pressure outlet.



Step 8 Engage the gun safety lock.

TAKING A BREAK... five minutes or more



Step 1 Turn off the engine.



Step 2

HO2701 - Turn fuel valve to the "OFF" position.
HO3101 - Turn fuel valve to the "OFF" position.



Step 3 Press trigger to release water pressure.



Step 4 Engage gun safety lock.

WINTERIZING AND LONG-TERM STORAGE

1. Disconnect all water connections.
2. Start the machine for a few seconds, until the remaining water exits. Turn off immediately.
3. Drain the gas and oil from the engine.
4. Do not allow high pressure hose to become kinked.

CLEANING TIPS

Deck Cleaning

(with or without detergent)

Pre-prepare deck and surrounding area with fresh water. If using Karcher Deck and Patio Cleaner, place detergent suction tube directly in to clearing solution and apply to surface at low pressure. For best results, limit your work area to smaller sections of approximately 25 square feet. Allow Karcher Deck and Patio Cleaner 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-prepare cleaning surface with fresh water. If using Karcher House or Window and Siding Cleaner, place detergent suction tube directly into clearing 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 Karcher House or Window and Siding Cleaner 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 Branch 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.

Cement Patios, Brick and Stone

(with or without detergent)

Pre-prepare cleaning surface with fresh water. If using Karcher Deck and Patio or All Purpose Cleaner, place detergent suction tube directly into clearing solution and apply to surface at low pressure. For best results, limit your work area to smaller sections of approximately 25 square feet. Allow Karcher Deck and Patio or 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.

Cars, Boats & Motorcycles

(with or without detergent)

Pre-prepare vehicle with fresh water. If using Karcher Vehicle or All Purpose Cleaner, place detergent suction tube directly into clearing 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 Branch 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 car-siding 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.

Barbeque 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 Outliner™ 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, wheelbarrows or other non-sensitive metal surfaces, you may want to use the Kärcher TurboStar™ Nozzle. **Caution: Do not use TurboStar™ spray nozzle on cloth, plastic or other sensitive surfaces as it may cause damage.**

Patio & Lawn Furniture

(with or without detergent)

Overseas 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. 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 TurboStar™ nozzle on patio or lawn furniture as it may cause damage.

Recommendations

- Before cleaning any surface an over-spray nozzle should be checked to test spray patterns 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.

- Detergent™ nozzle
- Extension Wand 90"
- Rotating Wash Brush
- Sand Blasting Attachment
- Hard Floor

- Pipe Drain Cleaner
- Extension Hose 30'
- Surface Cleaner
- Wash Brush

Symptom	Cause	Solution
Engine will not start.	No gas flow.	Fill gas tank.
	Fuel valve is in "OFF" position.	Slide the fuel valve lever to "ON" position.
	Engine throttle is not in correct position.	Slide the throttle left 1/3 of the way to the last position.
	Cycle is not in correct position.	Slide choke lever left to "COLD" position.
	Pressure built up in the high pressure washer.	Squeeze the trigger to release the pressure.
Unit does not reach high pressure.	Engine switch in "OFF" position.	Turn engine switch "ON".
	One meter of garden hose is too small.	Replace with a 3/4 inch garden hose.
Water supply is restricted.	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 mesh out in warm water.
	Pump pressure control is in low pressure position.	Turn pump pressure control to high pressure position.
Erase detergent nozzle is attached.	Erase detergent nozzle is attached.	Remove erase detergent nozzle and attach a high pressure nozzle.
	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.
Output pressure varies high and low.	Water inlet filter is clogged.	Remove filter and hose out in warm water.
	Discharge nozzle is obstructed.	Remove gull or remove debris with a fine nozzle.
	Collapsed gun, hose or spray wand.	Run oxidized unguar through detergent suction tube.

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or visit our website: www.karcher-usa.com

TROUBLESHOOTING - continued

Symptom	Cause	Solution
No detergent.	Detergent suction tube not properly connected to the machine.	Check connector.
	Detergent is too thick.	Disable detergent. For best results, use Karber detergent.
	Detergent filter valve is at "closed" setting.	Set detergent filter valve to a higher setting.
	After an detergent suction tube is plugged.	Run warm water through filter to remove debris.
Damaged or clogged detergent suction tube.	Remove obstruction or replace detergent suction tube.	
	A 1/4" pressure insert is attached.	Replace with black detergent nozzle.
Discharge nozzle is obstructed.	Blow out or remove debris with the nozzle.	
	Loose fittings.	Tighten fittings.
Garden hose connection leaks.	Miscellaneous rubber washer.	Insert new washer.
	Spray wand not properly attached.	Since the spray wand fits the gun, turn the main collar clockwise or to the gun threads until tight.
Broken fitting.	Call Karber customer service hotline and order an O-ring.	
	Pump is sucking air.	Check that hoses and fittings are air tight. Turn on machine and purge pump by squeezing trigger gun until a steady flow of water emerges through the nozzle.
Water leaks from pump.	Loose fittings.	Check that all fittings are tight.
	Water seals are damaged or worn.	Call service center.
The "real protection" device is not valid.	Thermal protection device will auto reset.	
	O-rings are damaged or worn.	Call service center.

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 or visit our website: www.karber-usa.com

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