KÄRCHER

Shark Pressure Washers

OPERATOR'S MANUAL

MODEL	ORDER #
HD 2.8/20 Pb / BG-282037	1.575-150.0
HD 2.5/27 Pb / BG-252737	1.575-151.0
HD 3.0/30 Pb / BG-303037	1.575-152.0
HD 3.7/35 Pb / BG-373537	1.575-154.0
HD 3.0/40 Pb / BG-304037	1.575-155.0

To locate your local Kärcher Shark Commercial Pressure Washer Dealer nearest you,
visit www.karchercommercial.com or www.karchershark.com

9.800-083.0

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Model Number _____

Serial Number _____

Date of Purchase _____

The model and serial numbers will be found on a decal attached to the pressure washer. You should record both serial number and date of purchase and keep in a safe place for future reference.

INTRODUCTION & IMPORTANT SAFETY INFORMATION

Thank you for purchasing this Pressure Washer.

We reserve the right to make changes at any time without incurring any obligation.

Owner/User Responsibility:

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

Owner and/or user must study and maintain for future reference the manufacturers' instructions.

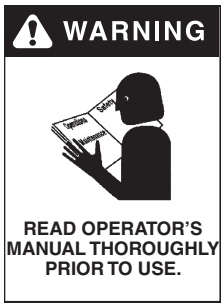
The operator must know how to stop the machine quickly and understand the operation of all controls. Never permit anyone to operate the engine without proper instructions.

This manual should be considered a permanent part of the machine and should remain with it if machine is resold.

When ordering parts, please specify model and serial number. Use only identical replacement parts.

This machine is to be used only by trained operators.

IMPORTANT SAFETY INFORMATION



WARNING: To reduce the risk of injury, read operating instructions carefully before using.

1. Read the owner's manual thoroughly. Failure to follow instructions could cause malfunction of the machine and result in death, serious bodily injury and/or property damage.
2. Know how to stop the machine and bleed pressure quickly. Be thoroughly familiar with the controls.
3. Stay alert — watch what you are doing.
4. All installations must comply with local codes. Contact your electrician, plumber, utility company or the selling distributor for specific details.

WARNING: Risk of asphyxiation. Use this product only in a well ventilated area.

5. Avoid installing machines in small areas or near exhaust fans. Exhaust contains poisonous carbon monoxide gas; exposure may cause loss of consciousness and may lead to death. It also contains chemicals known, in certain quantities, to cause cancer, birth defects or other reproductive harm.

WARNING: Risk of fire. Do not add fuel when the product is operating.

WARNING: Risk of explosion — do not spray flammable liquids.

6. Do not place machine near flammable objects as the engine is hot.

WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact: Local fire agencies for laws or regulations relating to fire prevention requirements.

7. Allow engine to cool for 1-2 minutes before refueling. If any fuel is spilled, make sure the area is dry before testing the spark plug or starting the engine. (Fire and/or explosion may occur if this is not done.)

   Gasoline engines on mobile or portable equipment shall be refueled:

   a. outdoors;
   b. with the engine on the equipment stopped;
   c. with no source of ignition within 10 feet of the dispensing point; and
   d. with an allowance made for expansion of the fuel should the equipment be exposed to a higher ambient temperature.

   In an overfilling situation, additional precautions are necessary to ensure that the situation is handled in a safe manner.

WARNING: Risk of injury. Disconnect battery ground terminal before servicing.

8. Transport/repair with fuel tank EMPTY or with fuel shut-off valve OFF.

IMPORTANT SAFETY INFORMATION

WARNING: Keep wand, hose, and water spray away from electric wiring or fatal electric shock may result.

9. Do not spray water on or near electrical components.

WARNING: Flammable liquids can create fumes which can ignite, causing property damage or severe injury.

WARNING: Risk of explosion — Do not spray flammable liquids.

10. Keep operating area clear of all persons.

WARNING: This machine exceeds 85 db appropriate ear protection must be worn.

WARNING: High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds. To avoid personal injury, eye, hand and foot safety devices must be worn.

11. Eye, hand, and foot protection must be worn when using this equipment.

WARNING: Grip cleaning wand securely with both hands before starting. Failure to do this could result in injury from a whipping wand.

12. To reduce the risk of injury, close supervision is necessary when a machine is used near children. Do not allow children to operate the pressure washer. **This machine must be attended during operation.**

WARNING: High pressure developed by these machines will cause personal injury or equipment damage. Keep clear of nozzle. Use caution when operating. Do not direct discharge stream at people, or severe injury or death will result.

13. Never make adjustments on machine while in operation.
14. Be certain all quick coupler fittings are secured before using pressure washer.

WARNING: Protect machine from freezing.

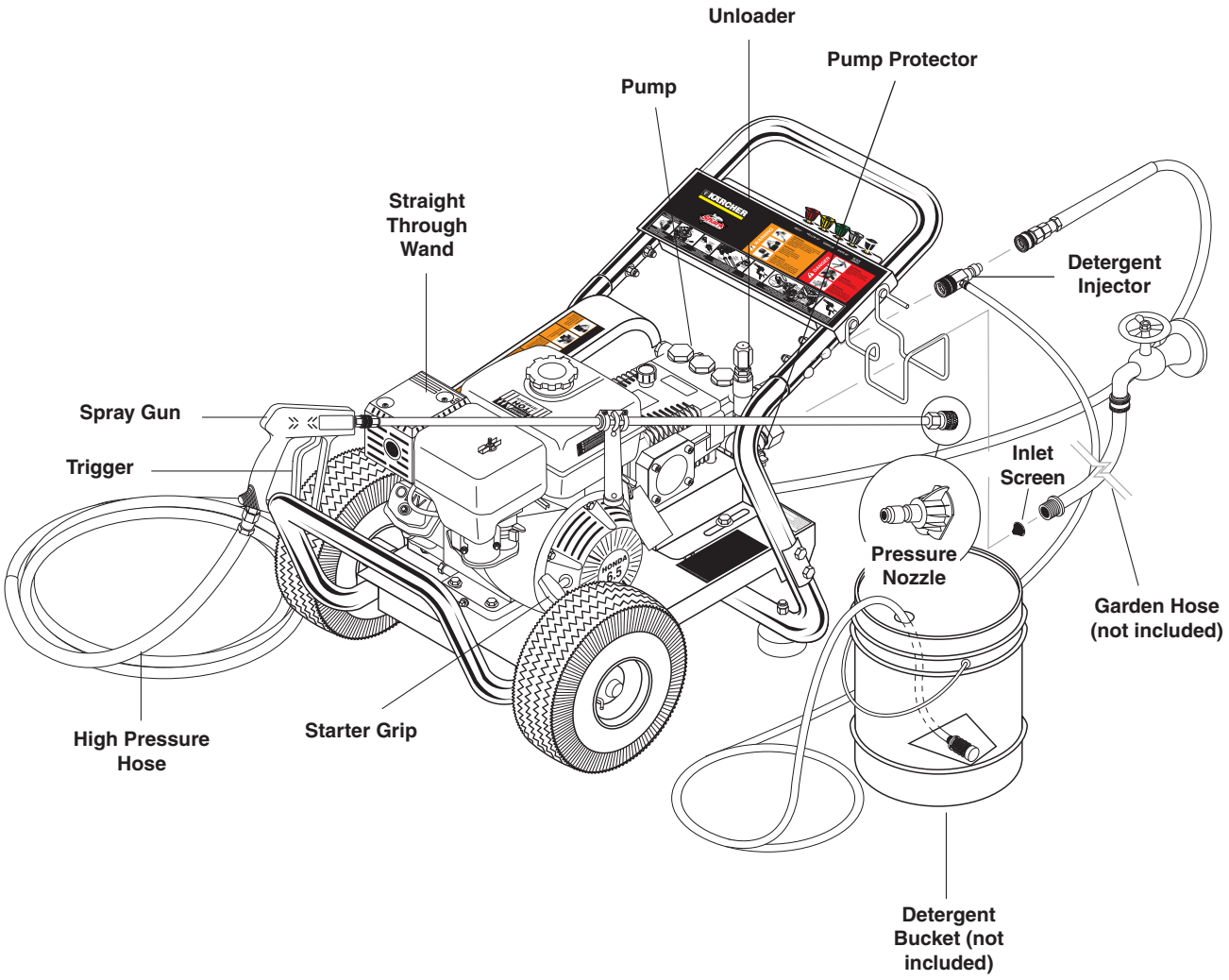
15. To keep machine in best operating conditions, it is important you protect machine from freezing. Failure to protect machine from freezing could cause malfunction of the machine and result in death, serious bodily injury, and/or property damage. Follow storage instructions specified in this manual.
16. The best insurance against an accident is precaution and knowledge of the machine.

WARNING: Be extremely careful when using a ladder, scaffolding or any other relatively unstable location. The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.

17. Do not overreach or stand on unstable support. Keep good footing and balance at all times.
18. Do not operate this machine when fatigued or under the influence of alcohol, prescription medications, or drugs.
19. Inlet water must be clean fresh water and no hotter then 90°F.
20. Manufacturer will not be liable for any changes made to our standard machines or any components not purchased from us.
21. Do not allow acids, caustic or abrasive fluids to pass through the pump.
22. Never run pump dry or leave spray gun closed longer than 1-2 minutes.

Follow the maintenance instructions specified in the manual.

COMPONENT IDENTIFICATION



Pump — Develops high pressure.

Starter Grip— Used for starting the engine manually.

Spray Gun — Controls the application of water and detergent onto cleaning surface with trigger device. Includes safety latch.

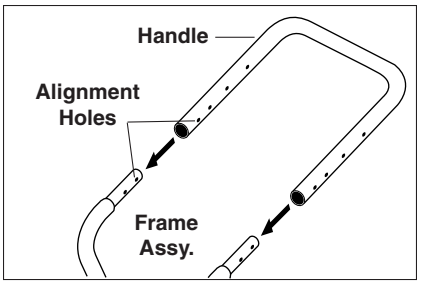
Detergent Injector — Allows you to siphon and mix detergents.

Wand — Must be connected to the spray gun.

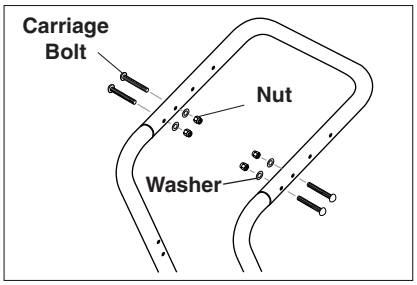
High Pressure Hose — Connect one end to water pump discharge nipple (detergent injector nipple) and the other end to spray gun.

Note: **If trigger on spray gun is released for more than 1-2 minutes, water may leak from pump protector. Warm water will discharge from pump protector onto floor. This system prevents internal pump damage from high temperatures.**

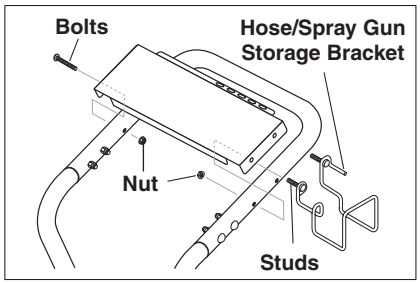
ASSEMBLY INSTRUCTIONS



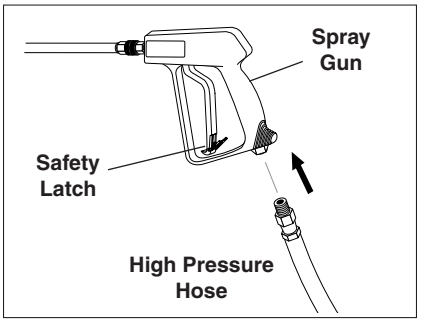
STEP 1: Attach the handle to the frame of the pressure washer. **Note**: It may be necessary to move the handle supports from side to side in order to align the handle so it will slide over the frame supports.



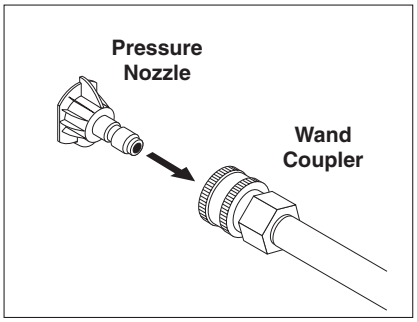
STEP 2: Insert the carriage bolt through the holes from the outside of the unit and attach a nut from the inside of the machine. Tighten nuts.



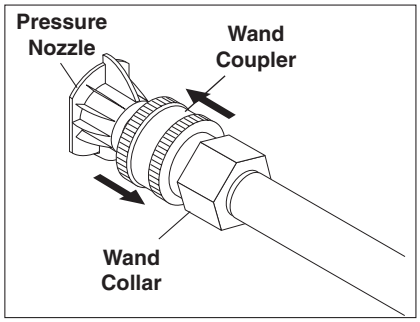
STEP 3: Attach the spray gun/hose storage handle, and bracket to handle. Tighten nuts.



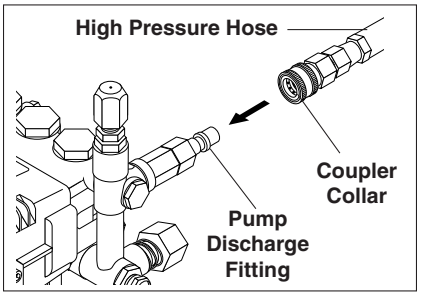
STEP 4: Attach the high pressure hose to the spray gun using teflon tape on hose threads.



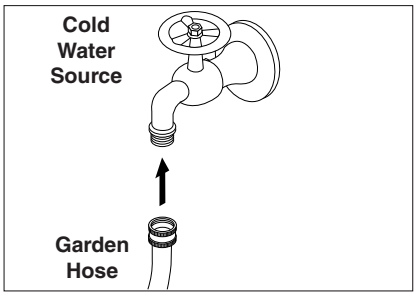
STEP 5: Pull the spring-loaded collar of the wand coupler back to insert your choice of pressure nozzle.



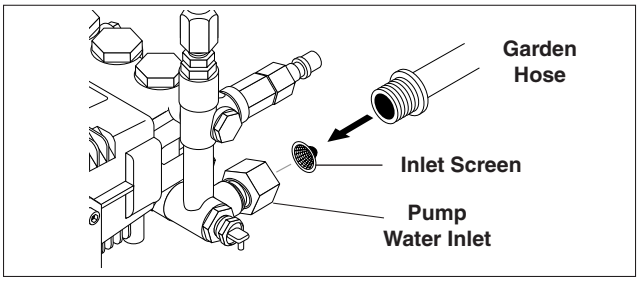
STEP 6: Release the coupler collar and push the nozzle and the collar until the collar clicks or locks. Pull the nozzle to make sure it is secure.



STEP 7: Connect high pressure hose to pump discharge fitting. Push coupler collar forward until secure.

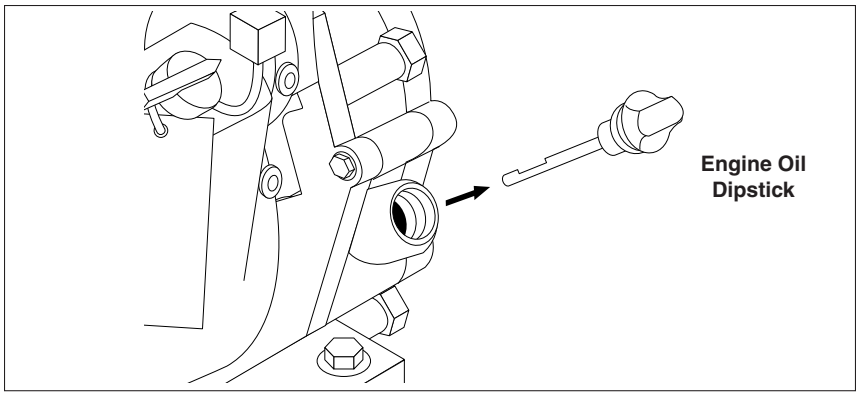


STEP 8: Connect garden hose to a clean cold water source and open supply valve completely. NEVER use hot water.

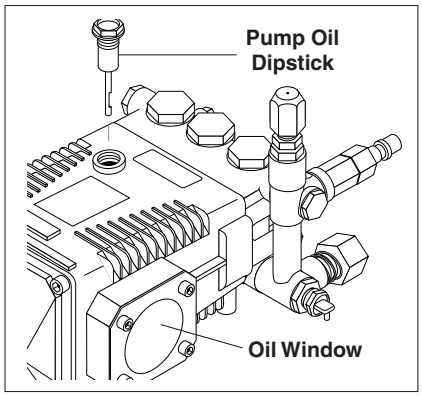


STEP 9: Connect the garden hose to pump water inlet. Inspect inlet screen. ***CAUTION: Do not run the pump without water or pump damage will result.***

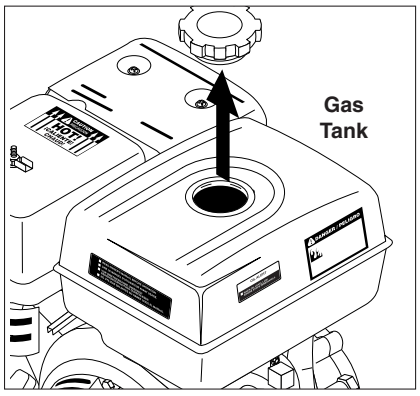
OPERATING INSTRUCTIONS



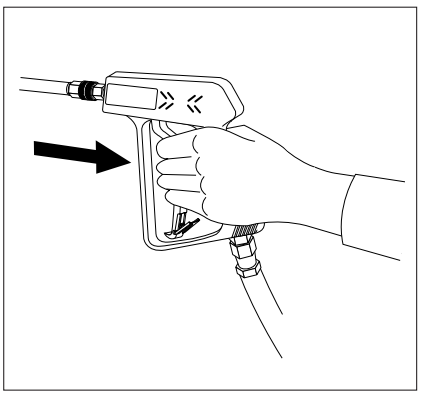
STEP 1: Check engine oil level. Oil level should be level with the bottom of the oil filler neck. Be sure the machine is level when checking the oil level. (Refer to the engine's operating manual included with machine.) We recommend that the oil be changed after the first 5 hours of use, then once every 50 hours. **Note:** Improper oil levels will cause low oil sensor to shut off engine. **IMPORTANT! Do not run engine with high or low oil levels as this will cause engine damage.**



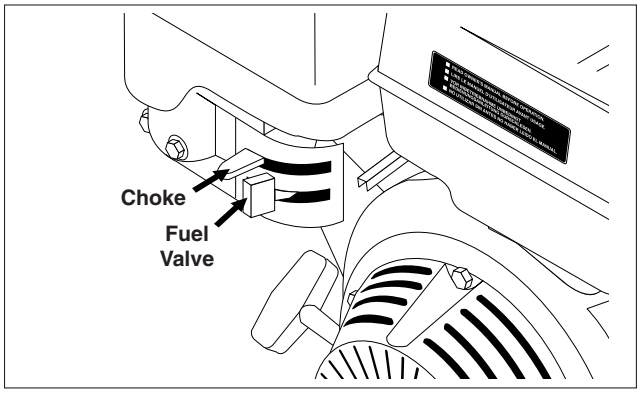
STEP 2: Remove shipping cap and install oil dipstick. Check pump oil level by using dipstick or observe oil level in oil window (if equipped). Use 30 wt. (non detergent) oil.



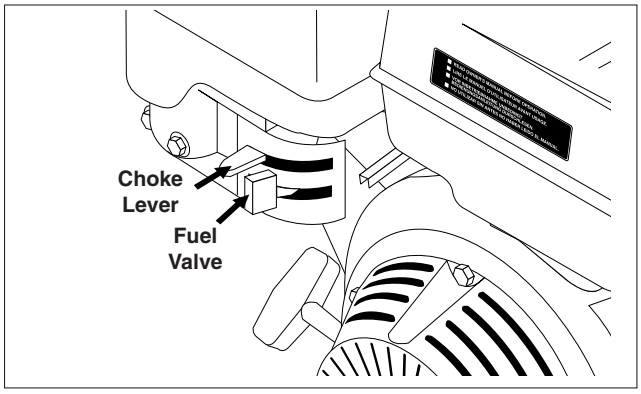
STEP 3: Fill gas tank with unleaded gasoline. Do not use leaded gasoline.



STEP 4: Trigger the spray gun to eliminate trapped air then wait for a steady flow of water to emerge from the spray nozzle.

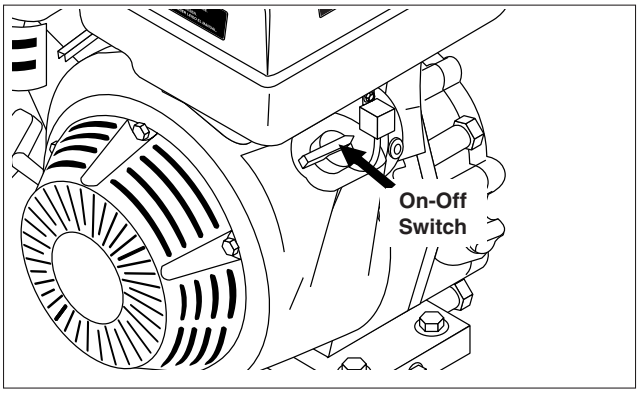


STEP 5: Move the fuel shut-off valve to the "On" position. When the engine is not in use, leave the fuel valve in the "OFF" position.



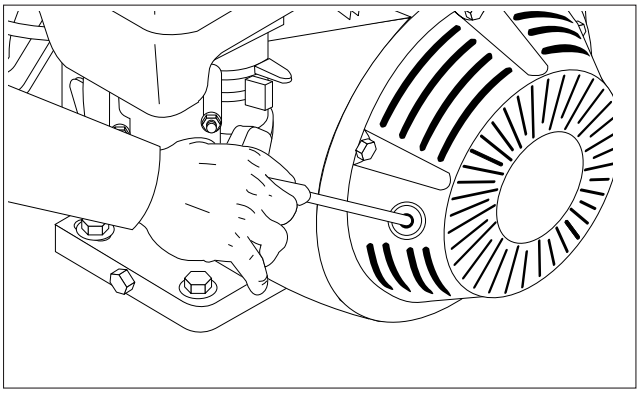
STEP 6: Move the choke lever to the "Choke" position (on a warm engine, leave the choke lever in the run position). Move the choke lever to the "Closed" position. To restart a warm engine, leave the choke lever in the "Open" position.

OPERATING INSTRUCTIONS (CONT.)



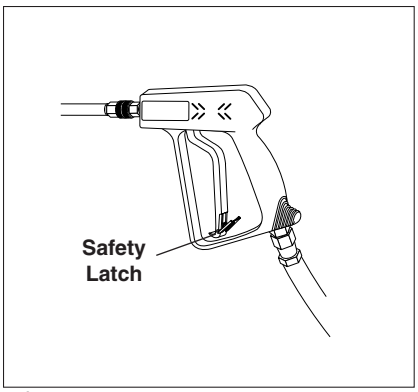
STEP 7: Turn the engine switch to "On" position.

On Briggs engines, move the throttle lever to "Fast" position, shown on engine as a rabbit.



STEP 8: Pull the starter grip. If the engine fails to start after 2 pulls, squeeze the trigger gun to release pressure and repeat step. Return starter gently. After the engine warms up enough to run smoothly, move choke to run position and throttle to fast position.

CAUTION: Small engines may kick back. Do not hold pull starter grip tightly in hand.



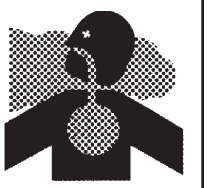
⚠ WARNING! Never replace nozzles without engaging the safety latch on the spray gun trigger.

The five color-coded quick connect nozzles provide a wide array of spray widths from 0° to 40° and are easily accessible when placed in the convenient rubber nozzle holder, which is provided on the front of the machine.

NOTE: For a more gentle rinse, select the white 40° or green 25° nozzle. To scour the surface, select the yellow 15° or red 0° nozzle. To apply detergent select the black nozzle.

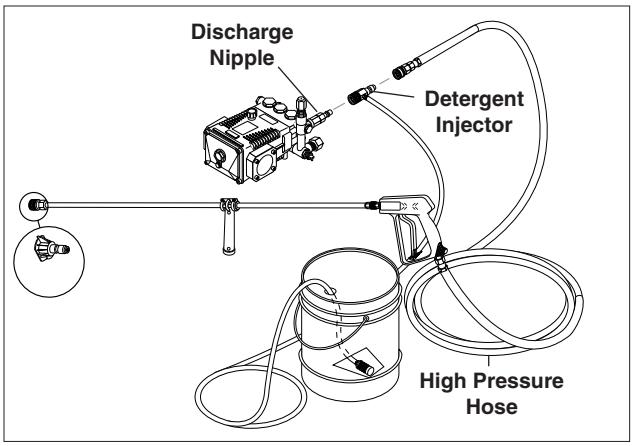
DETERGENTS & GENERAL CLEANING TECHNIQUES

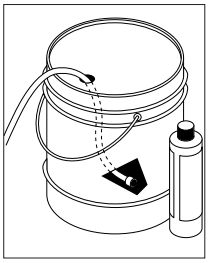
⚠ WARNING



WARNING: Some detergents may be harmful if inhaled or ingested, causing severe nausea, fainting or poisoning. The harmful elements may cause property damage or severe injury.

STEP 1: Connect detergent injector to discharge nipple on machine. Connect high pressure hose to injector with quick coupler. (Check to make sure locking couplers are in proper position before applying water pressure).

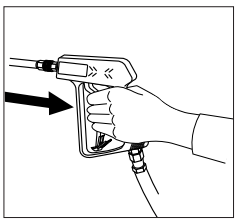




STEP 2: Use detergent designed specifically for pressure washers. Household detergents could damage the pump. Prepare detergent solution as required by the manufacturer. Fill a container with pressure washer detergent. Place the filter end of detergent suction tube into the detergent container.

STEP 3: With safety latch on spray gun engaged, secure black detergent nozzle into quick coupler.

NOTE: Detergent cannot be applied using red, yellow, green or white nozzles.



STEP 4: With the engine running, pull trigger to operate machine. Liquid detergent is drawn into the machine and mixed with water. Apply detergent to work area. Do not allow detergent to dry on surface.

IMPORTANT: You must flush the detergent injection system after each use by placing the suction tube into a bucket of clean water, then run the pressure washer in low pressure for 1-2 minutes.

THERMAL PUMP PROTECTION

If you run the engine on your pressure washer for 1-2 minutes without pressing the trigger on the spray gun, circulating water in the pump can reach high temperatures. When the water reaches this temperature, the pump protector engages and cools the pump by discharging the warm water onto the ground. This thermal device prevents internal damage to the pump.

CLEANING TIPS

Pre-rinse cleaning surface with fresh water. Place detergent suction tube directly into cleaning solution and apply to surface at low pressure (for best results, limit your work area to sections approximately 6 feet square and always apply detergent from bottom to top). Allow detergent 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 brush to remove stubborn dirt. Rinse at high pressure from top to bottom in an even sweeping motion keeping the spray nozzle approximately 1 foot from cleaning surface. Use overlapping strokes as you clean and rinse any surface. For best surface cleaning action spray at a slight angle.

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.
- Keep the spray nozzle a safe distance from the surface you plan to clean. High pressure wash a small area, then check the surface for damage. If no damage is found, continue to pressure washing.

⚠ ***CAUTION - Never use:***

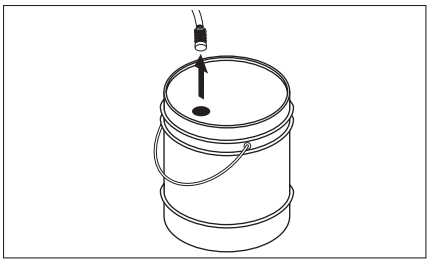
- Bleach, chlorine and other corrosive chemicals
- Liquids containing solvents (i.e., paint thinner, gasoline, oils)
- Tri-sodium phosphate products
- Ammonia products
- Acid-based products

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

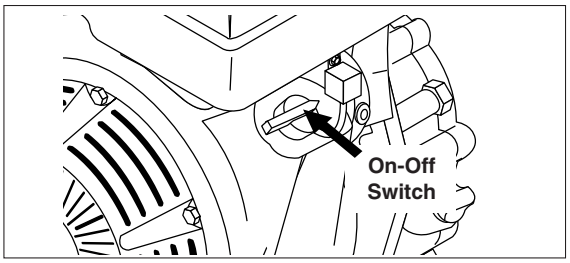
RINSING

It will take a few seconds for the detergent to clear. Apply safety latch to spray gun. Remove black soap nozzle from the quick coupler. Select and install the desired high pressure nozzle. **NOTE:** You can also stop detergent from flowing by simply removing detergent siphon tube from bottle.

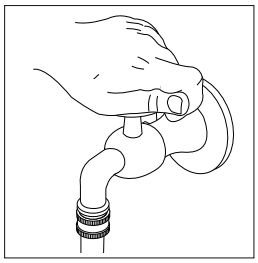
SHUTTING DOWN AND CLEAN-UP



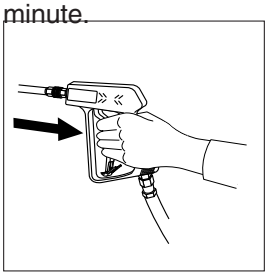
STEP 1: Remove detergent suction tube from container and insert into one gallon of fresh water. Slide nozzle forward for low pressure or to connect black detergent nozzle into wand quick coupler. Pull trigger on spray gun and siphon water for one minute.



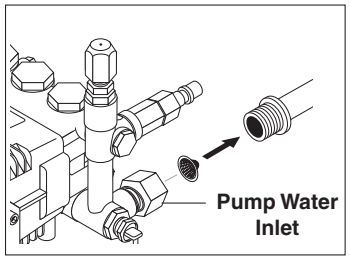
STEP 2: Turn off the engine.



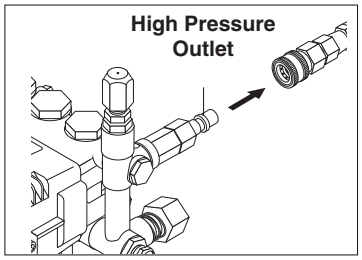
STEP 3: Turn off water supply.



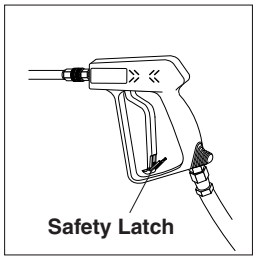
STEP 4: Press trigger to release water pressure.



STEP 5: Disconnect the garden hose from the water inlet on the machine.



STEP 6: Disconnect the high pressure hose from high pressure outlet.



STEP 7: Engage the spray gun safety lock.

STORAGE

CAUTION: Always store your pressure washer in a location where the temperature will not fall below 32°F (0°C). The pump in this machine is susceptible to permanent damage if frozen. FREEZE DAMAGE IS NOT COVERED BY WARRANTY.

1. Stop the pressure washer, squeeze spray gun trigger to release pressure.
2. Detach water supply hose and high pressure hose.
3. Turn on the machine for a few seconds, until remaining water exits. Turn engine off immediately.
4. Drain the gas and oil from the engine.
5. Do not allow high pressure hose to become kinked.
6. 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 your pressure washer.

When the pressure washer is not being operated or is being stored for more than one month, follow these instructions:

1. Replenish engine oil to upper level.
2. Drain gasoline from fuel tank, fuel line, fuel valve and carburetor.
3. Pour about one teaspoon of engine oil through the spark plug hole, pull the starter grip several times and replace the plug. Then pull the starter grip slowly until you feel increased pressure which indicates the piston is on its compression stroke and leave it in that position. This closes both the intake and exhaust valves to prevent rusting of cylinder.
4. Cover the pressure washer and store in a clean, dry place that is well ventilated away from open flame or sparks. **NOTE:** The use of a fuel additive, such as STA-BIL®, or an equivalent, will minimize the formulation of fuel deposits during shortage. Such additives may be added to the gasoline in the fuel tank of the engine, or to the gasoline in a storage container.

After Extended Storage

CAUTION: Prior to restarting, thaw out any possible ice from pressure washer hoses, spray gun or wand.

Engine Maintenance

During the winter months, rare atmospheric conditions may develop which will cause an icing condition in the carburetor. If this develops, the engine may run rough, lose power and may stall. This temporary condition can be overcome by deflecting some of the hot air from the engine over the carburetor area. **NOTE:** Refer to the engine manufacturer's manual for service and maintenance of the engine.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
LOW OPERATING PRESSURE	Faulty pressure gauge	Install new gauge.
	Insufficient water supply	Use larger supply hose; clean filter at water inlet.
	Old, worn or incorrect spray nozzle	Match nozzle number to machine and/or replace with new nozzle.
	Belt slippage	Tighten or replace; use correct belt.
	Plumbing or hose leak	Check plumbing system for leaks. Re-tape leaks with teflon tape.
	Faulty or mis-adjusted unloader valve	Adjust unloader for proper pressure. Install repair kit when needed.
	Worn packing in pump	Install new packing kit.
	Fouled or dirty inlet or discharge valves in pump	Clean inlet and discharge valves.
	Worn inlet or discharge valves	Replace with valve kit.
	Obstruction in spray nozzle	Remove obstruction.
	Leaking pressure control valve	Rebuild or replace as needed.
	Slow engine RPM	Set engine speed at proper specifications.
	Pump sucking air	Check water supply and possibility of air seepage.
	Valves sticking	Check and clean or replace if necessary.
	Unloader valve seat faulty	Check and replace if necessary.
FLUCTUATING PRESSURE	Valves worn	Check and replace if necessary.
	Blockage in valve	Check and replace if necessary.
	Pump sucking air	Check water supply and air seepage at joints in suction line.
	Worn piston packing	Check and replace if necessary.

ADJUSTING UNLOADER VALVES

Unloader valves are preset and tested at the factory before shipping. Occasional adjustment of the unloader may be necessary to maintain correct pressure.

Start with the valve set at its lowest spring tension. Raise pressure by turning adjusting knob clockwise until pressure is at the desired position. Do not overtighten.

Open and close spray gun to be sure pressure is correct. Raise or lower pressure by adjusting the knob.

Do not by-pass more than 1-2 minutes when by-passing to the suction side of the pump.

PREVENTATIVE MAINTENANCE

This pressure washer was produced with the best available materials and quality craftsmanship. However, you as the owner have certain responsibilities for the correct care of the equipment. Attention to regular preventative maintenance procedures will assist in preserving the performance of your equipment. Contact your dealer for maintenance. Regular preventative maintenance will add many hours to the life of your pressure washer. Perform maintenance more often under severe conditions.

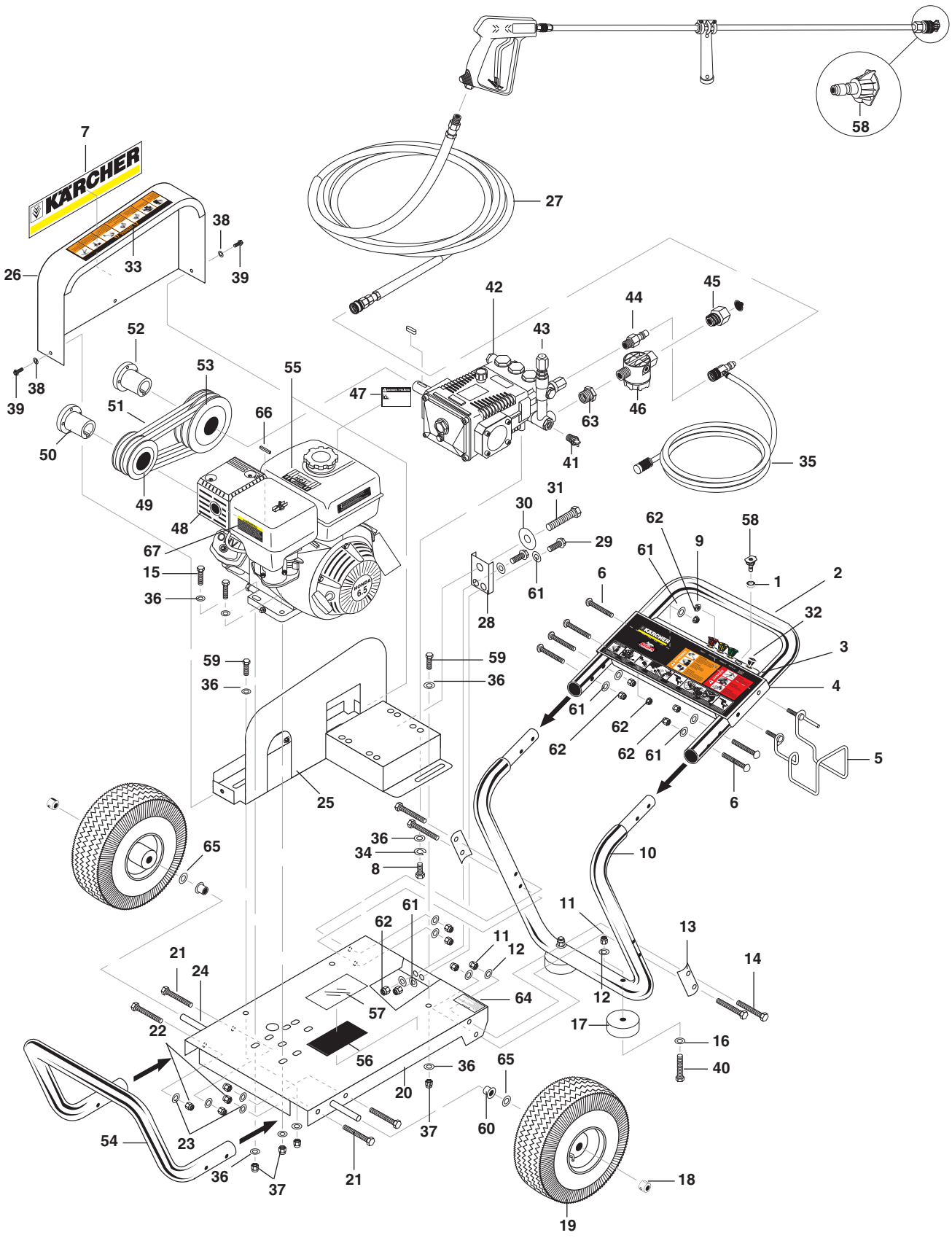
Maintenance Operation		Every 8 Hrs or Daily	25 Hrs or Weekly	50 Hrs or Monthly	100 Hrs or Yearly	Yearly
Check Oil	Pump		X			
	Engine	X				
Change Oil	Pump					X
	Engine			X		
Air Cleaner		Check		Clean		
Spark Plug					X	
Check Valve Clearance						X
Fuel Tank Filter					X	
Water Filter/Clean		Check				X

OIL CHANGE RECORD

Check pump oil and engine oil level before first use of your new pressure washer.

Date Oil Changed Month/Day/Year	No. of Operating Hours Since Last Oil Change	Brand Name and Type of Oil (see above)

EXPLODED VIEW - 1.575-150.0, 1.575-151.0



EXPLODED VIEW PARTS LIST - 1.575-150.0, 1.575-151.0

ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-064.0	Grommet, Rubber, Nozzle Holder	5
2	9.803-122.0	Handle, Grab, Chrome	1
3	9.800-723.0	Label, Cold Water Handle	1
4	9.803-126.0	Plate, Warning/Instructions, Black	1
5	9.803-098.0	Hanger, Hose/Wand	1
6	9.802-706.0	Bolt, Carriage, 1/4"-20 x 1-3/4", Zinc	6
7	9.800-110.0	Label, Belt Guard	1
8	9.802-741.0	Bolt, 8mm x 16mm Hex	4
9	9.802-778.0	Nut, 5/16” Flange	2
10	9.803-119.0	Handle, Lower Grab, Chrome	1
11	9.802-779.0	Nut, 3/8", ESNA, NC	6
12	9.802-807.0	Washer, 3/8" SAE, Flat	6
13	9.803-114.0	Retainer Bracket, Handle, Black	2
14	9.802-728.0	Bolt, 3/8" x 2" NC, HH	4
15	9.802-713.0	Bolt, 5/16" x 1/2"	4
16	9.802-817.0	Washer, 3/8" x 1", Steel	2
17	9.802-066.0	Pad, Soft Rubber	2
18	9.802-782.0	Collar, 5/8" Bore Shaft, 3010	2
19	9.802-270.0	Wheel & Tire Assembly, 4" Steel Rim w/Tube	2
20	9.803-124.0	Frame Assy, Small, Black	1
21	9.802-712.0	Bolt, 5/16" x 1-3/4", NC, Carriage, Zinc	4
22	9.802-776.0	Nut, 5/16", ESNA, NC	4
23	8.718-980.0	Washer, 5/16" Flat, SAE	4
24	9.803-097.0	Axle, 5/8" x 19-5/8"	1
25	9.803-109.0	Slider, Pump, Black	1
26	9.802-095.0	Guard, Belt	1
27	Hose, See Hose & Spray Gun Assembly Page 20		
28	9.803-118.0	Bracket, Take Up, CW, Black	1
29	9.802-700.0	Screw, 1/4" x 3/4" HH NC	2
30	9.802-800.0	Washer, 1/2", Flat, SAE	1
31	9.802-740.0	Bolt, 1/2" x 3-1/2" HEX	1
32	8.712-398.0	Nozzle, Compl., Detergent	1
33	9.800-036.0	Label, Warning, Pictorial Small	1
34	9.802-813.0	Washer, 5/16" Lock	4
35	9.802-225.0	Injector Assy, Detergent, Non-Adj, 3-5GPM	1
36	8.718-980.0	Washer, 5/16" Flat	18
37	9.802-776.0	Nut, 5/16" ESNA	7
38	9.802-802.0	Washer, 1/4" Flat, SAE	3
39	9.802-753.0	Bolt, 1/4" x 3/4" Flange	3
40	9.802-730.0	Bolt, 3/8" x 2-1/4", HH	2
41	9.804-025.0	Pump Protector 1/4"	1
42	Pump, See Specifications Pages		

EXPLODED VIEW PARTS LIST - 1.575-150.0, 1.575-151.0

ITEM	PART NO.	DESCRIPTION	QTY
43	Unloader, See Specifications Pages 22-23		
44	9.802-171.0	Nipple, 3/8" x 3/8" NPT ST Male	1
45	9.802-146.0	Swivel, 1/2" MP x 3/4" GHF w/Strainer	1
46	9.802-163.0	Strainer, 1/2" PA, Inline Plastic	1
47	9.800-008.0	Label, Danger Cool Engine	1
48	Engine, See Specifications Pages		
49	Engine Pulley, See Specifications Pages		
50	Engine Bushing, See Specifications Pages		
51	Belts, See Specifications Pages		
52	Pump Bushing, See Specifications Pages		
53	Pump Pulley, See Specifications Pages 22-23		
54	9.803-123.0	Handle, Bumper, Chrome	1
55	9.800-006.0	Label, Hot/Caliente w/Arrows, Warning	1
56	8.932-968.0	Label, Intended For Outdoor Use	1
57	9.800-034.0	Label, Clear Lexan, 2-1/4" x 4-1/2"	1
58	8.712-331.0	Nozzle, SAQCMEG, 0003.0, Red (151.0)	1
	8.712-333.0	Nozzle, SAQCMEG 1503.0, Yellow (151.0)	1
	8.712-334.0	Nozzle, SAQCMEG, 2503.0, Green (151.0)	1
	8.712-335.0	Nozzle, SAQCMEG 4003.0, White (151.0)	1
	8.712-345.0	Nozzle, SACQMEG, 0004.5, Red (150.0)	1
	8.712-346.0	Nozzle, SAQCMEG 1504.0, Yellow (150.0)	1
	8.712-347.0	Nozzle, SAQCMEG, 2504.0, Green (150.0)	1
	8.712-348.0	Nozzle, SAQCMEG 4004.0, White (150.0)	1
59	9.802-710.0	Bolt, 5/16" x 1" NC	3
60	9.802-103.0	Bushing, 5/8" Snap	2
61	9.802-802.0	Washer, 1/4" Flat, SAE	10
62	9.802-773.0	Nut, 1/4" ESNA, NC	8
63	8.706-984.0	Adapter, 1/2" x 1/2"	1
64	9.800-049.0	Label, Manufacturer's Cleaning Solution	1
65	9.802-810.0	Washer, 5/8" Flat	2
66	9.802-958.0	Key, .185 Sqr. x 1.75"	1
67	8.917-015.0	LABEL, REGULATION 4442.6	1

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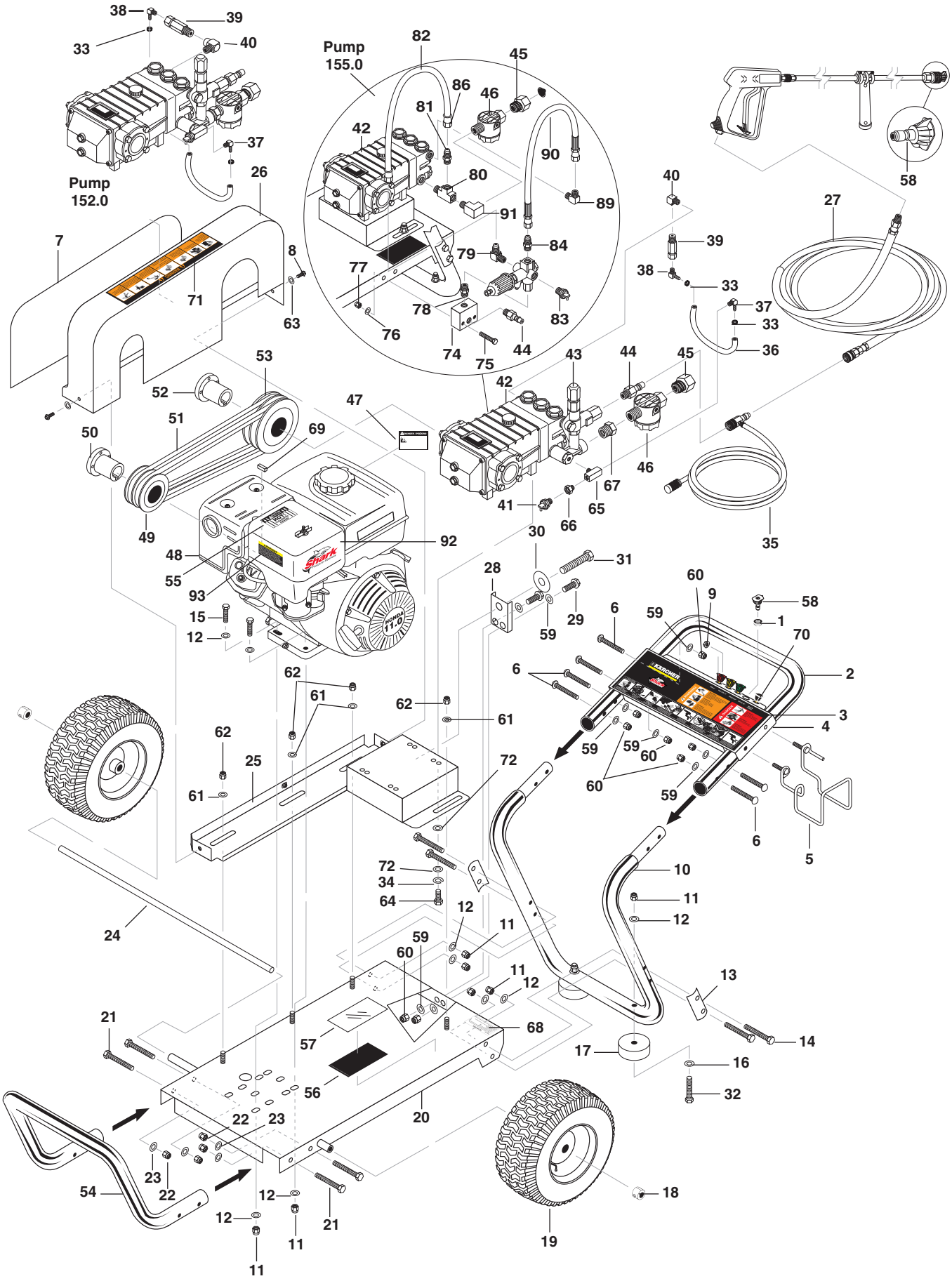
EXPLODED VIEW - 1.575-152.0,154.0,155.0



EXPLODED VIEW PARTS LIST - 1.575-152.0,154.0,155.0

ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-064.0	Grommet, Rubber, Nozzle Holder	5
2	9.803-122.0	Handle, Grab, Chrome	1
3	9.800-723.0	Label, Cold Water Handle	1
4	9.803-126.0	Plate, Warning/Instruction, Black	1
5	9.803-098.0	Hanger, Hose/Wand	1
6	9.802-706.0	Bolt, Carriage, 1/4"-20 x 1-3/4", Zinc	6
7	9.800-046.0	Label, Belt Guard (152.0, 154.0,155.0)	1
8	9.802-753.0	Bolt, 1/4" x 3/4" Flange	3
9	9.802-778.0	Nut, 5/16" Flange	2
10	9.803-119.0	Handle, Lower Grab, Chrome	1
11	9.802-779.0	Nut, 3/8" ESNA, NC	10
12	9.802-807.0	Washer, 3/8" SAE, Flat	14
13	9.803-114.0	Retainer Bracket, Handle, Black	2
14	9.802-728.0	Bolt, 3/8" x 2" NC, HH	4
15	9.802-727.0	Bolt, 3/8" x 1-3/4", Tap	4
16	9.802-817.0	Washer, 3/8" x 1", Steel	2
17	9.802-066.0	Pad, Soft Rubber	2
18	9.802-782.0	Collar, 5/8" Bore Shaft, 3010	2
19	9.802-271.0	Wheel & Tire Assy., 6" Steel Rim w/Tube (152.0,154.0,155.0)	2
20	9.803-115.0	Frame Assy, Large, Black (152.0,154.0,155.0)	1
21	9.802-712.0	Bolt, 5/16" x 1-3/4", NC, Carriage, Zinc	4
22	9.802-776.0	Nut, 5/16", ESNA, NC	4
23	8.718-980.0	Washer, 5/16" Flat, SAE	4
24	8.911-226.0	Axle, 5/8" x 27" L (152.0,154.0,155.0)	1
25	9.803-103.0	Slider, Pump (152.0,154.0,155.0)	1
26	9.802-092.0	Guard, Belt (154.0,155.0,)	1
27	Hose, See Hose and Spray Gun Assy., Page 22		
28	9.803-118.0	Bracket, Take Up, CW, Black	1
29	9.802-700.0	Screw, 1/4" x 3/4" HH NC	2
30	9.802-800.0	Washer, 1/2", Flat, SAE	1
31	9.802-740.0	Bolt, 1/2" x 3-1/2" HEX	1
32	9.802-730.0	Bolt, 3/8" x 2-1/4", HH	2
33	6.390-126.0	Clamp, Hose, .46-54 ST	2
34	9.802-813.0	Washer, 5/16" Lock (152.0)	4
	9.802-816.0	Washer, 7/16" Lock, Split (154.0,155.0)	4
35	9.802-225.0	Injector Assy., Detergent, Non-Adj, 3-5 GPM, 0.083	1
36	9.802-254.0	Hose, 1/4", Push-On, Fuel Line(All except 155.0)	1 ft.
37	8.706-958.0	Barb, 1/4" Barb x 1/4" ML Pipe, 90°	1
38	8.706-955.0	Hose Barb, 1/4" Barb x 1/8" ML Pipe 90° (152.0)	1
	8.706-940.0	Hose Barb, 1/4" Barb x 1/8" ML Pipe (154.0, 155.0) 1	

EXPLODED VIEW PARTS LIST - 1.575-152.0,154.0,155.0

IITEM	PART NO.	DESCRIPTION	QTY
39	9.802-190.0	Valve, E-Z Start, 3/8" MPT x 1/8" FPT	1
	9.804-065.0	Valve, E-Z Start, 1/4" MPT x 1/8" FPT (152.0)	1
40	8.706-207.0	Elbow, 3/8", Street	1
	8.706-200.0	Elbow, 1/4", Street (152.0)	1
41	9.804-025.0	Pump Protector, 1/4" PTP (All except 155.0)	1
42	Pump, See Specifications Pages		
43	Unloader, See Specifications Pages		
44	9.802-171.0	Nipple, 3/8" x 3/8" NPT ST Male	1
45	9.802-146.0	Swivel, 1/2" MP x 3/4" GHF w/Strainer	1
46	9.802-163.0	Strainer, 1/2" PA, Inline Plastic	1
47	9.800-008.0	Label, Danger Cool Engine	1
48	Engine, See Specifications Pages		
49	Engine Pulley, See Specifications Pages		
50	Engine Bushing, See Specifications Pages		
51	Belts, See Specifications Pages		
52	Pump Bushing, See Specifications Pages		
53	Pump Pulley, See Specifications Pages		
54	9.803-123.0	Handle, Bumper, Chrome	1
55	9.800-006.0	Label, Hot/Caliente w/Arrows, Warning	1
56	8.932-968.0	Label, Intended For Outdoor Use	1
57	9.800-034.0	Label, Clear Lexan, 2-1/4" x 4-1/2"	1
58	8.712-337.0	Nozzle, SAQCMEG, 0003.5, Red (152.0)	1
	8.712-338.0	Nozzle, SAQCMEG 1503.5, Yellow (152.0)	1
	8.712-339.0	Nozzle, SAQCMEG, 2503.5, Green (152.0)	1
	8.712-340.0	Nozzle, SAQCMEG 4003.5, White (152.0)	1
	8.712-350.0	Nozzle, SACQMEG, 0004.5, Red (154.0)	1
	8.712-360.0	Nozzle, SAQCMEG 1504.0, Yellow (154.0)	1
	8.712-370.0	Nozzle, SAQCMEG, 2504.0, Green (154.0)	1
	8.712-380.0	Nozzle, SAQCMEG 4004.0, White (154.0)	1
	8.712-331.0	Nozzle, SACQMEG, 0003 Red(155.0)	1
	8.712-333.0	Nozzle, SAQCMEG 1503.0, Yellow (155.0)	1
	8.712-334.0	Nozzle, SAQCMEG, 2503.0, Green (155.0)	1
	8.712-335.0	Nozzle, SAQCMEG 4003.0, White(155.0)	1
59	9.802-802.0	Washer, 1/4" Flat	10
60	9.802-773.0	Nut, 1/4" ESNA	8
61	8.718-980.0	Washer, 5/16" Flat	4
62	9.802-776.0	Nut, 5/16" ESNA	4
63	9.802-802.0	Washer, 1/4" Flat, SAE	3
64	9.802-741.0	Bolt, 8mm x 16mm Hex (152.0)	4
	9.802-744.0	Bolt, 10mm x 20mm (154.0,155.0)	4
65	8.706 -860.0	Tee, 1/2" Branch (155.0)	1
	8.706-854.0	Tee, 1/4" Branch (152.0, 154.0)	1
67	8.706-984.0	Adapter, 1/2" x 1/2" (All except 154.0, 155.0)	1
68	9.800-049.0	Label, Manufacturer's Cleaning Solution	1
69	9.802-959.0	Key, .247 Sqr. x 2.125"	1
70	9.802-311.0	Nozzle, Compl., Detergent	1
71	9.800-036.0	Label, Warning, Pictoral, Small	1

EXPLODED VIEW PARTS LIST - 1.575-152.0,154.0,155.0

ITEM	PART NO.	DESCRIPTION	QTY
72	8.718-980.0	Washer, 5/16" Flat (152.0)	4
	9.802-807.0	Washer, 3/8" Flat (155.0)	4
73	9.802-367.0	Unloader, AL-VRT 607 w/Easy Start (155.0)	1
74	9.802-870.0	Block, Unloader, 3/8" x 3/8" 1.25 Stee (155.0)	1
75	9.802-728.0	Bolt, 3/8" x 2", NC HH (155.0)	2
76	9.802-807.0	Washer, 3/8" SAE, Flat (155.0)	2
77	9.802-779.0	Nut, 3/8" ESNA NC (155.0)	2
78	8.705-974.0	Nipple, 3/8" Hex Steel (155.0)	1
79	9.802-129.0	Elbow, 3/8" x 1/2" JIC (155.0)	1
80	8.706-860.0	Street Tee, 1/2" (155.0)	1
81	9.802-128.0	Nipple, 1/2" x 1/2" JIC (155.0)	1
82	9.802-259.0	Hose, Push-on 1/2" (155.0)	15"
83	8.707-254.0	Pump Protector, 3/8" PTP (155.0)	1
84	9.802-036.0	Nipple, 1/2" JIC, 3/8" Pipe (155.0)	1
85	9.802-810.0	Washer, 5/8" Flat	2
86	9.802-151.0	Swivel, 1/2" JIC, Female, Push-On (155.0)	2
87	9.802-959.0	Key, .247" Sqr. x 2.125"	1
88	9.800-036.0	Label, Warning, Pictoral, Small	1
89	9.802-039.0	Elbow, 1/2" JIC, 3/8", 90° (155.0)	1
90	8.711-677.0	Hose, 3/8" x 20", 5800, 2 Wire, Pressure Loop (155.0)	1
91	8.706-829.0	ELBOW, 1/2"" STREET, BRASS"	1
92	8.716-660.0	Label, Shark, Die-cut	1
93	8.917-015.0	LABEL, REGULATION 4442.6	1

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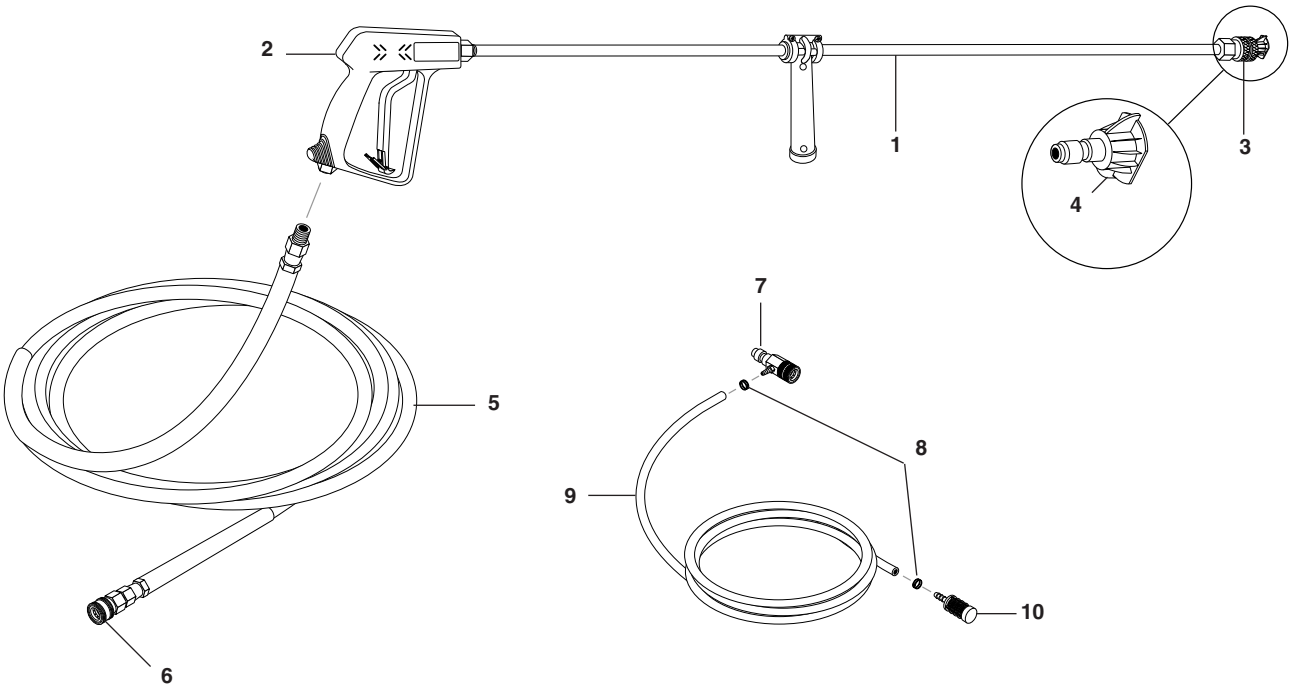
HOSE & SPRAY GUN ASSEMBLY



HOSE & SPRAY GUN ASSEMBLY PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-219.0	Wand Assy., Side Grip w/1/4" Coupler, 35-1/2"	1
2	8.711-348.0	Spray Gun, AP 1000	1
3	9.802-164.0	Coupler, 1/4" Female, Brass	1
4	Nozzle, See Breakdown for Part Numbers		
5	8.739-125.0	Hose, 3/8" x 50', 1 Wire, Tuff-Flex, (150.0, 151.0, 152.0)	1
	8.739-203.0	Hose, 3/8" x 50', 2 Wire,Tuff-Flex (154.0)	1
6	9.802-166.0	Coupler, 3/8" Female, Brass	1
7	9.802-216.0	Injector, Chemical, Non-Adjust, 3-5 GPM, .083	1
8	6.390-126.0	Clamp, Hose	2
9	9.802-251.0	Tube, 1/4" x 1/2" Clear Vinyl	6 ft.
10	8.707-057.0	Strainer, Plastic, 1/4" Hose Barb	1

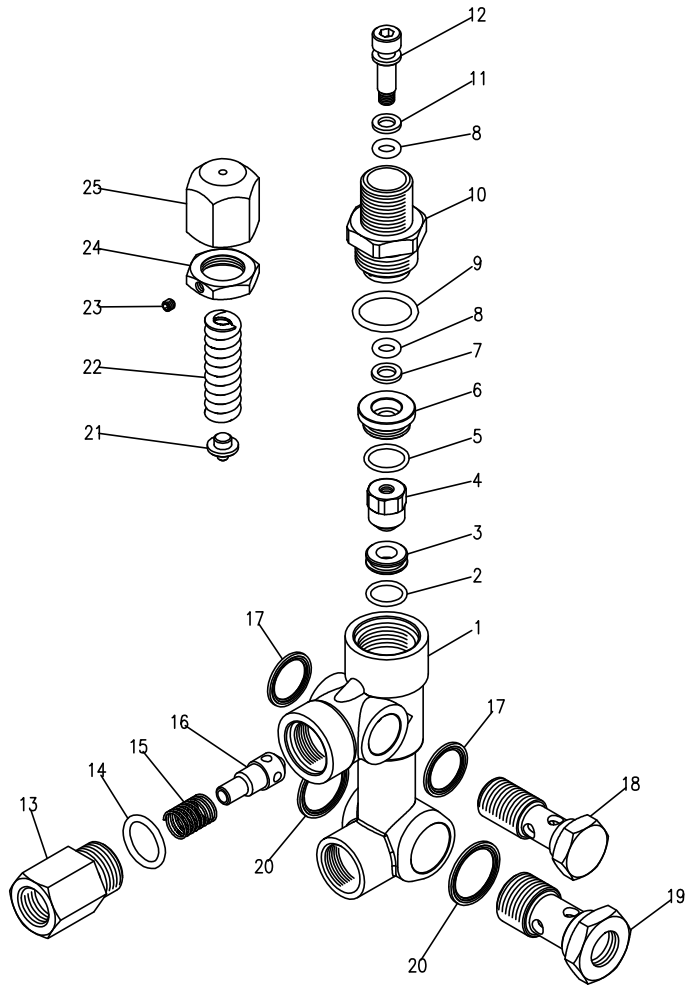
SPECIFICATIONS

Model	GPM	Pressure (PSI)	Nozzle Size	Pump	Pump Part No.	Unloader Part No.	Engine HP	Engine Part No.	Pump Pulley	Pump Pulley Part No.
1.575-150.0	2.8	2000	4.0	KD3030	8.715-214.0	9.803-899.0	GX160 (5.5hp)	9.802-316.0	AK74H	9.802-369.0
1.575-151.0	2.5	2700	3.0	KD3030	8.715-214.0	9.803-899.0	GX200 (6.5hp)	9.802-317.0	BK80H	9.802-380.0
1.575-152.0	3.0	3000	3.5	KD3030	9.803-825.0	9.803-899.0	GX270 (9hp)	9.802-315.0	2BK80	9.802-389.0
1.575-154.0	3.7	3500	4.0	KM4035	9.802-343.0	9.803-900.0	GX390 (13hp)	9.802-322.0	2BK90H	8.715-593.0
1.575-155.0	3.0	4000	3.0	KM3540	8.904-689.0	9.802-367.0	GX390	9.802-322.0	2BK80H	9.802-389.0

SPECIFICATIONS

Model	Pump Bushing	Bushing Part No.	Engine Pulley	Pulley Part No.	Engine Bushing	Bushing Part No.	Belt Size	Belt Part No.
1.575-150.0	24MM	9.802-402.0	AK39H	9.803-898.0	HX3/4"	9.803-897.0	AX33 (1)	9.803-896.0
1.575-151.0	24MM	9.802-402.0	BK36H	9.802-379.0	HX3/4"	9.803-897.0	BX32 (1)	9.802-413.0
1.575-152.0	24MM	9.802-402.0	2BK40H	9.802-384.0	HX1"	9.802-398.0	BX38 (2)	9.802-417.0
1.575-154.0	24MM	9.802-402.0	2BK32H	9.802-381.0	HX1"	9.802-398.0	BX39 (2)	9.802-418.0
1.575-155.0	24MM	9.802-402.0	2BK40H	9.802-384.0	HX1"	9.802-398.0	BX38 (2)	9.802-417.0

VBA35 KG/KM UNLOADER



VBA35 KG/KM UNLOADER PARTS LIST

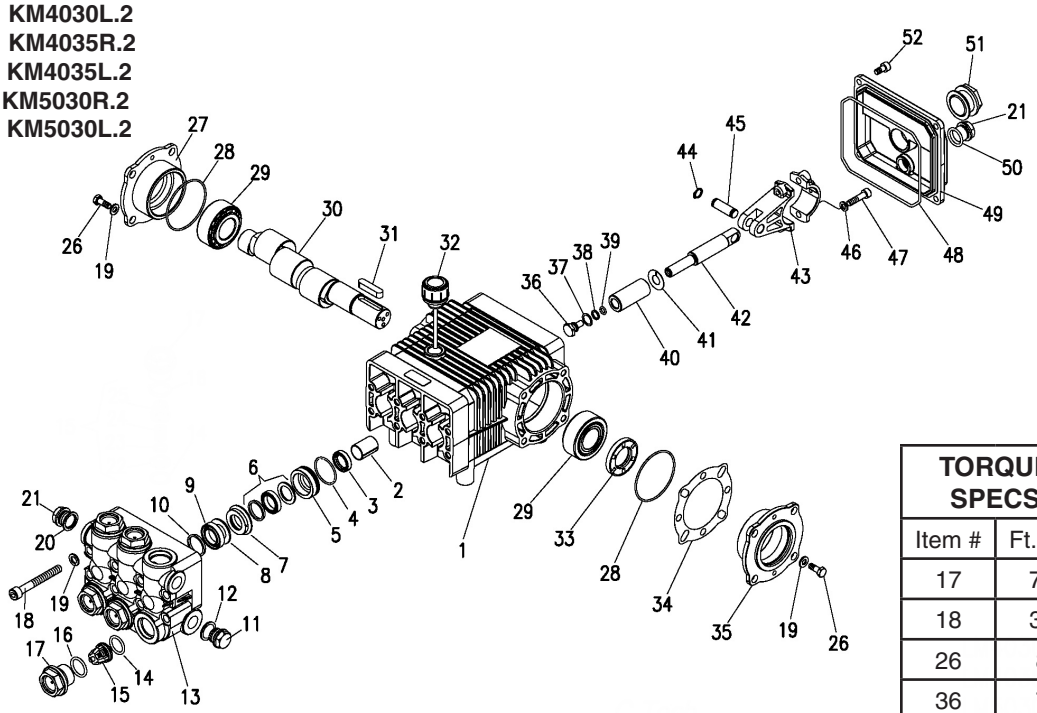
ITEM	PART #	DESCRIPTION	KIT	QTY
1	9.803-901.0	Body Valve (KM)		1
	9.803-902.0	Body Valve (KD)		1
2	9.803-903.0	O-Ring	A, C	1
3	9.803-904.0	Seat	C	1
4	9.803-905.0	Ball, Sub-assy	C	1
5	9.803-906.0	O-Ring	A	1
6	9.803-907.0	Guide Bushing		1
7	9.803-908.0	Teflon Ring	A	1
8	9.803-909.0	O-Ring	A	2
9	9.803-910.0	O-Ring	A	1
10	9.803-911.0	Connector		1
11	9.803-912.0	Teflon Ring	A	1
12	9.803-913.0	Stem	C	1
13	9.803-914.0	Connector, Female		1
14	9.803-191.0	O-Ring	A, B	1

ITEM	PART #	DESCRIPTION	KIT	QTY
15	9.803-916.0	Spring	B	1
16	9.803-917.0	Poppet	B	1
17	9.802-893.0	Seal Washer 3/8		2
18	9.803-920.0	Banjo Bolt, 3/8 w/ 1/8 Pilot		1
19	9.803-915.0	Banjo Bolt 1/2		1
20	9.803-921.0	Seal Washer 1/2		2
21	9.803-922.0	Plate	C	1
22	9.803-923.0	Spring	C	1
23	9.803-924.0	Set Screw		1
24	9.803-925.0	Nut		1
25	9.803-926.0	Brass Handle		1

Kit A	9.803-927.0	O-Ring Repair Kit
Kit B	9.803-928.0	Outlet Kit
Kit C	9.803-929.0	Stem Repair Kit

KM.2 PUMP EXPLODED VIEW

8.904-689.0 KM3540R.2
9.803-405.0 KM4030R.2
9.803-406.0 KM4030L.2
9.802-343.0 KM4035R.2
9.803-407.0 KM4035L.2
9.802-342.0 KM5030R.2
9.803-408.0 KM5030L.2



TORQUE SPECS	
Item #	Ft.-lbs
17	75
18	30
26	8
36	7
47	13
52	7.6

KM.2 PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.933-012.0	Crankcase	1
2	9.803-196.0	Plunger Guide	3
3*	See Kits Below	Plunger Oil Seal	3
4*	See Kits Below	O-Ring Ø1.78 x 31.47	3
5*	See Kits Below	Pressure Ring	3
6*	See Kits Below	U-Seal	3
7*	See Kits Below	Intermediate Ring	3
8*	See Kits Below	Back-up Ring	3
9*	See Kits Below	U-Seal	3
10*	See Kits Below	Support Ring	3
13	9.802-932.0	Manifold Head	1
14*	See Kits Below	O-Ring Ø2.62 x 17.13	6
15*	See Kits Below	Valve Assembly	6
16*	See Kits Below	O-Ring Ø2.62 x 20.29	6
17	9.802-928.0	Valve Plug	6
18	9.802-938.0	Manifold Stud Bolt	8
19	9.802-884.0	Washer	16
20	9.803-198.0	Copper Washer 3/8	1
21	9.802-925.0	Brass Plug 3/8	1

ITEM	PART NO.	DESCRIPTION	QTY
26	9.802-944.0	Hexagonal Screw	8
27	8.717-210.0	Closed Bearing Housing	1
28	9.803-192.0	O-Ring Ø1.78 x 60.05	2
29	8.933-011.0	Tapered Roller Bearing	2
30	9.803-146.0	Crankshaft (5030,3540)	1
	9.803-147.0	Crankshaft (4030)	1
31	9.803-167.0	Crankshaft Key	1
32	9.802-921.0	Oil Dip Stick	1
33	9.803-140.0	Crankshaft Seal	1
34	9.803-178.0	Shim	2
35	8.717-209.0	Bearing Housing	1
36*	See Kits Below	Plunger Bolt	3
37*	See Kits Below	Copper Spacer	3
38*	See Kits Below	O-Ring Ø1.78 x 7.66	3
39*	See Kits Below	Teflon Ring	3
40*	See Kits Below	Plunger (4035)	3
	See Kits Below	Plunger (4030, 5030)	3
	See Kits Below	Plunger (3540)	3
41*	See Kits Below	Copper Spacer	3

KM.2 PUMP EXPLODED VIEW PARTS LIST (CONT.)

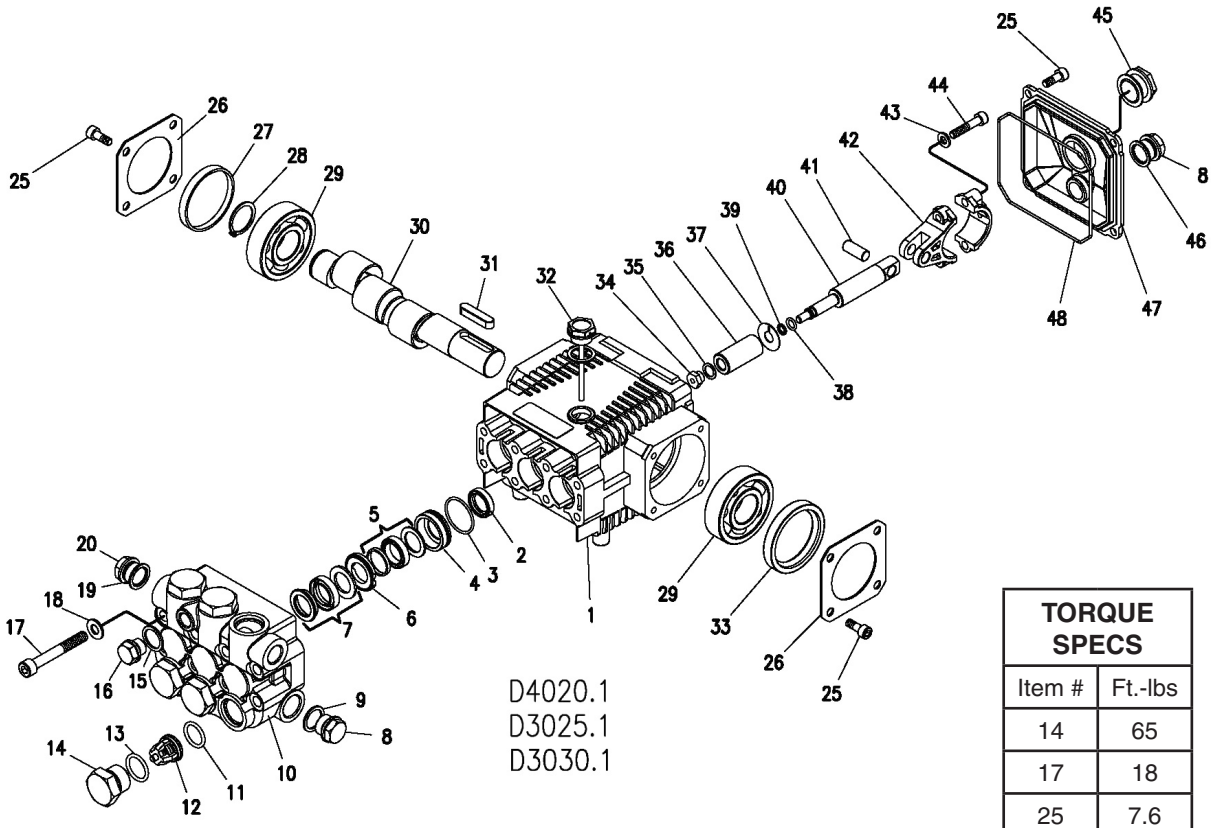
ITEM	PART NO.	DESCRIPTION	QTY
42	9.803-144.0	Plunger Rod	3
43	9.803-158.0	Connecting Rod	3
44	9.802-913.0	Snap Ring	6
45	9.802-916.0	Connecting Rod Pin	3
46	9.803-218.0	Spring Washer	6
47	9.803-238.0	Connecting Rod Screw	6
48	8.933-016.0	O-Ring, Ø2.62 x 126.67	1
49	9.803-165.0	Crankcase Cover	1
50	9.803-197.0	O-Ring, Ø1.78 x 14	1
51	9.803-202.0	Sight Glass 3/4	1
52	9.802-939.0	Cover Screw	5

* Available in kit (See below)

REPAIR KIT NO.	8.725-360.0	8.725-362.0	8.725-358.0	8.725-361.0	8.725-363.0	8.725-359.0	9.802-629.0	9.802-620.0	8.933-023.0	9.802-603.0	9.802-609.0
KIT DESCRIPTION	Plunger Seal LM-4035 18mm	Plunger Seal LM-4030 LM-5030 20mm	Plunger Seal LM-3540 15mm	Complete Seal Packing LM-4035 18mm	Complete Seal Packing LM-4030 LM-5030 20mm	Complete Seal Packing LM-3540 15mm	Plunger LM-4035 18mm	Plunger LM-4030 LM-5030 20mm	Plunger LM-3540 15mm	Complete Valve	Plunger Oil Seals
ITEM NUMBERS INCLUDED	4, 6, 8, 9, 10	4, 6, 8, 9, 10	4, 6, 8, 9, 10	4, 5, 6, 7, 8, 9, 10	4, 5, 6, 7, 8, 9, 10	4, 5, 6, 7, 8, 9, 10	36, 37, 38, 39, 40, 41	36, 37, 38, 39, 40, 41	36, 37, 38, 39, 40, 41	14, 15, 16	3
NO. OF CYLINDERS KIT WILL SERVICE	3	3	3	1	1	1		1	1	6	3

KD.1 SERIES PUMP EXPLODED VIEW

9.803-417.0 KD 3025.1
9.804-006.0 KD 3030.1
9.804-019.0 KD 4020.1



TORQUE SPECS	
Item #	Ft.-lbs
14	65
17	18
25	7.6
34	7
44	13

KD.1 SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	9.803-938.0	Crankcase	1
2*	See Kits Below	Plunger Oil Seal	3
3*	See Kits Below	O-Ring Ø1.78 x 28.30	3
4*	See Kits Below	Pressure Ring 15mm (3030)	3
	See Kits Below	Pressure Ring 18mm (4020, 3025)	3
5*	See Kits Below	U-Seal, 15mm (3030)	3
	See Kits Below	U-Seal, 18mm (4020, 3025)	3
6*	See Kits Below	Intermediate Ring 15mm (3030)	3
	See Kits Below	Intermediate 18mm (4020, 3025)	3
7*	See Kits Below	Intermed. Ring 15mm (3030)	3
	See Kits Below	Intermed. Ring 18mm (4020, 3025)	3
8	9.802-926.0	Brass Plug 1/2"	1
9	9.803-199.0	Copper Washer 1/2"	1
10	9.803-946.0	Manifold Housing	1

ITEM	PART NO.	DESCRIPTION	QTY
11*	9.803-947.0	O-Ring Ø1.78 x 15.54	6
12*	See Kits Below	Valve Assembly	6
13*	9.803-948.0	O-Ring Ø2.62 x 18.77	6
14	9.803-949.0	Valve Plug	6
15	9.803-950.0	Copper Washer 1/4	1
16	9.803-951.0	Brass Plug G1/4	1
17	9.803-952.0	Manifold Stud Bolt	8
18	9.802-884.0	Washer	8
19	9.803-198.0	Copper Washer 3/8	1
20	9.802-925.0	Brass Plug 3/8	2
25	9.802-939.0	Screw	12
26	9.803-953.0	Bearing Cover	2
27	9.803-954.0	Bearing Seal	1
28	9.802-914.0	Snap Ring	1
29	9.803-955.0	Ball Bearing	2
30	9.803-956.0	Crankshaft	1
31	9.803-167.0	Crankshaft Key	1
32	9.803-957.0	Oil Dipstick	1

KD.1 SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
33	8.933-010.0	Crankshaft Seal	1
34*	See Kits Below	Plunger Nut	3
35*	See Kit Below	Copper Spacer	3
36*	See Kits Below	Plunger, 15mm (3030)	3
	See Kits Below	Plunger, 18mm (4020, 3025)	3
37*	See Kits Below	Copper Spacer	3
38*	See Kits Below	O-Ring Ø1.78 x 5.28	3
39*	See Kits Below	Teflon Ring	3
40*	See Kits Below	Plunger Rod	3
41	9.803-965.0	Connecting Rod Pin	3
42	9.803-966.0	Connecting Rod	3
43	9.803-218.0	Spring Washer	6
44	8.933-020.0	Connecting Rod Screw	6
45	9.803-202.0	Sight Glass	1
46	9.803-197.0	Gasket	1
47	9.803-968.0	Crankcase Cover	1
48	9.803-969.0	O-Ring Ø2.62 x 107.62	

* Available in kit (See below)

REPAIR KIT NUMBER	8.725-354.0	8.725-356.0	8.725-355.0	8.725-357.0	9.803-934.0	9.803-935.0	9.803-936.0	9.803-937.0
Kit Description	Plunger Seal 15mm LD-3030	Plunger Seal 18mm LD-3025 LD-4020	Complete Seal Packing, 15mm LD-3030	Complete Seal Pack-ing, 18mm LD-3025 LD-4020	Plunger 15mm LD-3030	Plunger 18mm LD-3025 LD4020	Complete Valve	Plunger Oil Seals
ITEM NUM-BERS IN-CLUDED	3, 5, 7	3, 5, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7,	34, 35, 36, 37, 38	34, 35, 36, 37, 38	11, 12, 13	2
NUMBER OF CYLINDERS KIT WILL SERVICE	3	3	1	1	1	1	6	3

LIMITED NEW PRODUCT WARRANTY—COMMERCIAL PRESSURE WASHERS

Phone: 360-833-1600
Fax: 800-248-8409
www.karchercommercial.com

WHAT THIS WARRANTY COVERS

All Kärcher commercial pressure washers are warranted by Kärcher to the original purchaser to be free from defects in materials and workmanship under normal use, for the periods specified below. This Limited Warranty, subject to the exclusions shown below, is calculated from the date of the original purchase, and applies to the original components only. Any parts replaced under this warranty will assume the remainder of the pressure washer's warranty period.

FIVE YEAR PARTS AND ONE YEAR LABOR WARRANTY

Components manufactured by Kärcher, such as frames, handles, float tanks, fuel tanks, belt guards, and heating coils. Internal components on the oil-end of Kärcher axial pumps have a 5 year warranty. Period of warranty on axial pumps shall be one year. Kärcher crankshaft pumps have a 7 year warranty on non-wear parts. Heating coils are pro-rated at 25% after 2 years. Stainless steel coils have a 10 year warranty.

ONE YEAR PARTS AND ONE YEAR LABOR WARRANTY

All other components, excluding normal wear items as described below, will be warranted for one year on parts and labor. Parts and labor warranty on these parts will be for one year regardless of the duration of the original component manufacturer's part warranty.

WARRANTY PROVIDED BY OTHER MANUFACTURERS

Motors, generators, and engines, which are warranted by their respective manufacturers, are serviced through these manufacturers' local authorized service centers. Kärcher is not authorized and has no responsibility to provide warranty service for such components. Motors manufactured outside of the United States will be warranted by Kärcher.

WHAT THIS WARRANTY DOES NOT COVER

This warranty does not cover the following items:

1. Normal wear items, such as nozzles, spray guns, discharge hoses, wands, quick couplers, seals, filters, gaskets, O-rings, packings, pistons, pump valve assemblies, strainers, belts, brushes, rupture disks, fuses, pump protectors.
2. Any components or other devices incorporated into a Kärcher product that are not manufactured by Kärcher, including, but not limited to gasoline engines, pumps, etc.
3. Defects caused by improper or negligent operation or installation, accident, abuse, misuse, neglect, unauthorized modifications, repair or maintenance of the product by persons other than authorized representatives of Kärcher, including, but not limited to, the failure of the Customer to comply with recommended product maintenance schedules.
4. Kärcher products that have been returned by the original Customer and are ultimately re-sold by an Authorized Servicing Dealer or other sales or service outlet to another purchaser.
5. Kärcher products that are sold by any distributor or retailer that is not an official authorized dealer or retailer of Kärcher products.
6. Defects caused by acts of nature and disaster including, but not limited to, floods, fires, wind, freezing, earthquakes, tornadoes, hurricanes and lightning strikes.
7. Defects caused by water sediments, rust corrosion, thermal expansion, scale deposits or a contaminated water supply (such as water in the unit with chloride content higher than that of 80 mg/liter or use of chemicals not approved or recommended by Kärcher).
8. Defects caused by improper voltage, voltage spikes or power transients in the electrical supply.
9. Devices or accessories not distributed or approved by Kärcher.
10. Any cost of labor arising from the removal and reinstallation of the alleged defective part by Customer.
11. Transportation of the product to an Authorized Servicing Dealer, field labor, replacement rental and any freight charges.

Any components, accessories or other devices provided with the product but not manufactured by Kärcher (such as engines, pumps, etc.) are subject to warranties and service through their respective manufacturers authorized service centers and according to the applicable terms and conditions of such manufacturers warranties. Such components or other devices not manufactured by Kärcher should be referred by the Customer to an authorized service center or their respective manufacturers for repair or replacement.

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Kärcher sales and service representatives are not authorized to waive or alter the terms of this warranty, or to increase the obligations of Kärcher under the warranty.

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www.karchercommercial.com www.karchershark.com
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