Electronic Service Manuals

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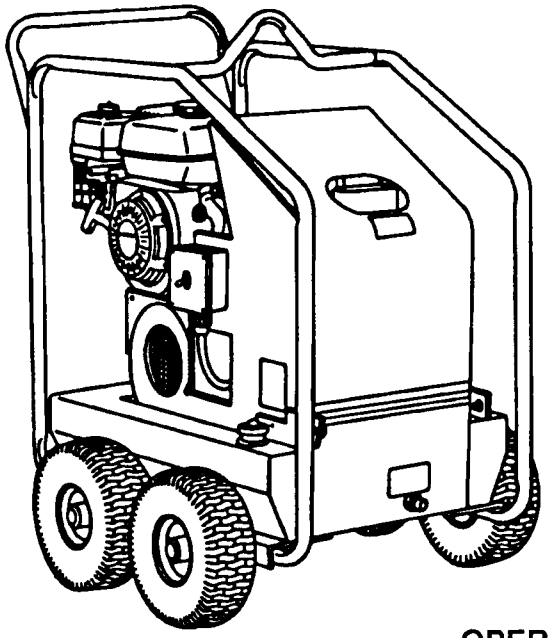
KENT



MODEL:
KW-2017-GH
PRESSURE WASHER

OPERATING PROCEDURES,
MAINTENANCE INSTRUCTIONS
& ILLUSTRATED PARTS LIST

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JUNE, 1994

PATENT PENDING

Form #37-0401-061494-250

CONTENTS

In a continued commitment to improve quality, The KENT Company reserves the right to make component or design changes when necessary.

INTRODUCTION

Congratulations on the purchase of your new KENT hot water pressure washer. You can be assured your pressure washer was constructed and designed with quality and performance in mind. Each component has been rigorously tested to ensure the highest level of acceptance.

This operators' manual was compiled for your benefit. By reading and following the simple safety, installation, operation, maintenance and trouble shooting steps described in this manual, you will receive years of trouble free operation from your new KENT pressure washer. The contents of this manual are based on the latest product information available at the time of publication. KENT reserves the right to make changes in price, color, materials, equipment, specifications or models at any time without notice.

! IMPORTANT !

These paragraphs are surrounded by a "SAFETY ALERT BOX". This box is used to designate and emphasize Safety Warnings that must be followed when operating this pressure washer.

Accompanying the Safety Warnings are "signal words" which designate the degree or level of hazard seriousness. The "signal words" used in this manual are as follows:

***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 serious injury.**

***CAUTION*: Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.**

The symbol set to the left of this paragraph is a "Safety Alert Symbol". This symbol is used to call your attention to items or procedures that could be dangerous to you or other persons using this equipment.

YOU AS THE OWNER ARE RESPONSIBLE FOR THE SAFE OPERATION OF THIS UNIT. KEEP ALL SAFETY DEVICES ACTIVE ON THE UNIT AND ALWAYS PROVIDE A COPY OF THIS MANUAL TO ANYONE USING THIS EQUIPMENT. READ ALL INSTRUCTIONS BEFORE OPERATING THIS PRESSURE WASHER AND ESPECIALLY POINT OUT THE "SAFETY WARNINGS" TO PREVENT THE POSSIBILITY OF PERSONAL INJURY TO THE OPERATOR.

Once the unit has been uncrated, inspect for signs of obvious or concealed freight damage. If damage does exist, file a claim with the transportation company immediately. Be sure that all damaged parts are replaced and that the mechanical problems are corrected prior to operation of the unit. If you require service, contact the dealer from whom the unit was purchased or your local authorized KENT service agency. Note the model, type and serial number indicated on the data plate of your machine. Have this information ready when inquiring about service. Always refer to your KENT limited warranty on the back cover for complete service information.

IMPORTANT SAFETY WARNINGS

FIRE & VENTILATION PRECAUTIONS:

1. This unit was designed for outdoor use only. NEVER operate this unit in an enclosed area. ALWAYS make certain there is adequate air (oxygen) for combustion as well as ventilation to prevent the presence of poisonous carbon monoxide gases. Beware of poorly ventilated areas or exhaust fans which can cause inadequate combustion or engine overheating.
2. NEVER operate this unit in the presence of flammable vapors or combustible dust, gases or other combustible materials. (A spark may cause an explosion or fire.) When servicing this machine, be especially careful to properly dispose of any flammable materials. DO NOT spray flammable liquids.
3. DO NOT operate unit without all covers in place.
4. DO NOT SMOKE while filling engine or burner fuel and NEVER fill the engine fuel tank while unit is running or hot. Allow engine to cool two minutes before fueling.
5. NEVER fill burner fuel tank while unit is running or hot. Always refuel slowly using No. 1 or No. 2 fuel oil/diesel or kerosene. NEVER use gasoline. Avoid the possibility of spilled fuel causing fire.
6. DO NOT leave the unit unattended after shutdown until it is completely cooled down as described in the "SHUTDOWN" procedures listed on page 15 of this manual.
7. DO NOT store the unit near an open flame or any equipment such as a stove, furnace, water heater, etc., which utilize a pilot light or devices which can create a spark.
8. *"A spark arrester must be added to the muffler of this engine if it is to be used on any forest covered, brush covered or grass covered unimproved land. The arrester must be maintained in effective working order by the operator."* This is required by California state law, Section 4442 of the California Public Resources Code. Other states may have similar laws. Federal laws apply on federal lands.

SPRAY PRECAUTIONS:

DANGER

RISK OF INJECTION OR SEVERE INJURY

KEEP CLEAR OF NOZZLE-DO NOT DIRECT DISCHARGE STREAM AT PERSONS

THIS PRODUCT IS TO BE USED ONLY BY TRAINED OPERATORS.

1. KEEP AWAY FROM SPRAY: Because of the high pressure, velocity and temperature of the spray, fluids can penetrate the skin, causing serious injury.
   NEVER point the gun at yourself or anyone else. NEVER put your hand, fingers or body directly over the spray nozzle. Keep operating area clear of all persons. Use extreme caution when operating near children.
   If an accident does occur and the spray appears to have penetrated the skin, SEEK EMERGENCY MEDICAL CARE. DO NOT TREAT AS A SIMPLE CUT. If you are using cleaning agents, be prepared to tell a physician exactly what kind.
2. ALWAYS wear protective goggles when operating the machine to shield the eyes from flying debris and detergents. Other protective equipment such as rubber suits, gloves and respirators are advisable, especially when using cleaning detergents of a corrosive nature.
3. Stay alert-watch what you are doing. Do not operate the unit when fatigued or under the influence of alcohol or drugs.
4. NEVER squeeze the trigger unless securely braced. The thrust from the water traveling through the nozzle may be powerful enough to cause the operator to lose balance if unprepared. DO NOT overreach or stand on unstable support. Keep good footing and balance at all times. NEVER trigger the gun while on a ladder.
5. ALWAYS hold on firmly to the gun/wand assembly when starting and operating the unit. Failure to do so can cause the wand to fall and whip dangerously. NEVER operate the gun with the trigger wired in the open position. To prevent accidental discharge, the trigger gun should be securely locked when not in use.
6. DO NOT direct spray toward fragile materials such as glass. Shattering could result in serious injury.
7. DO NOT direct spray on or into electrical installations of any kind! This includes electrical outlets, light bulbs, fuse boxes, transformers, the unit itself, etc. Severe electrical shock may occur.
8. Even after you shut off the unit, there is high pressure water left in the pump, hose and gun until you release it by triggering the gun. Before removing the spray nozzle or servicing the unit, ALWAYS shut off the unit and trigger the gun to release trapped pressure.

IMPORTANT SAFETY WARNINGS

DETERGENT CLEANING PRECAUTIONS:

1. DO NOT use solvents or highly corrosive detergents or acid type cleaners with this pressure washer. Use only mild detergents.
2. KNOW YOUR DETERGENTS! Be prepared to tell a physician exactly what you are using in the event of an emergency. Read all detergent labels and follow all appropriate instructions regarding preparation, use, safety and transportation. Keep ALL detergents out of the reach of children.
3. DO NOT use this pressure washer to dispense hazardous detergents.
4. DO NOT alter the detergent injection feature in any manner not prescribed in this manual. Use only genuine KENT replacement parts for necessary repairs.
5. Avoid working on hot surfaces or in direct sunlight to minimize the chances of the detergent drying, which may result in damaging painted surfaces. Be certain to rinse a small section at a time.

MISCELLANEOUS SAFETY PRECAUTIONS:

1. Follow all handling, operations, maintenance and safety instructions listed in this manual and the Engine Operators manual that accompanies this unit, and PROVIDE SUCH INFORMATION to ANYONE who will be operating this unit.
2. 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 detergents into the water supply. (Direct connection is permitted if a back flow preventer is installed.)
3. DO NOT allow any part of your body or the high pressure hose to make contact with the heat exchanger or muffler. Avoid dragging the hose over an abrasive surface such as cement. This causes wear and eventual rupturing. High pressure hoses should be inspected daily for signs of wear. If evidence of failure exists, promptly replace all suspect hoses to prevent the possibility of injury from the high pressure spray. If a hose or fitting is leaking, NEVER place your hand directly on the leak.
4. DO NOT operate the unit if you see any fuel oil, pump oil or water leaks from the machine. DO NOT resume operation until the unit has been inspected and repaired by a qualified service person.
5. NEVER run the unit with the governor disconnected or operate at excessive speeds.
6. NEVER allow children or adolescents to operate this unit! Close supervision is necessary when operating this unit near children.
7. DO NOT leave pressurized unit unattended. Shut off the unit and release trapped pressure before leaving.
8. DO NOT move the unit by pulling on the hose!

ADJUSTMENT PRECAUTIONS

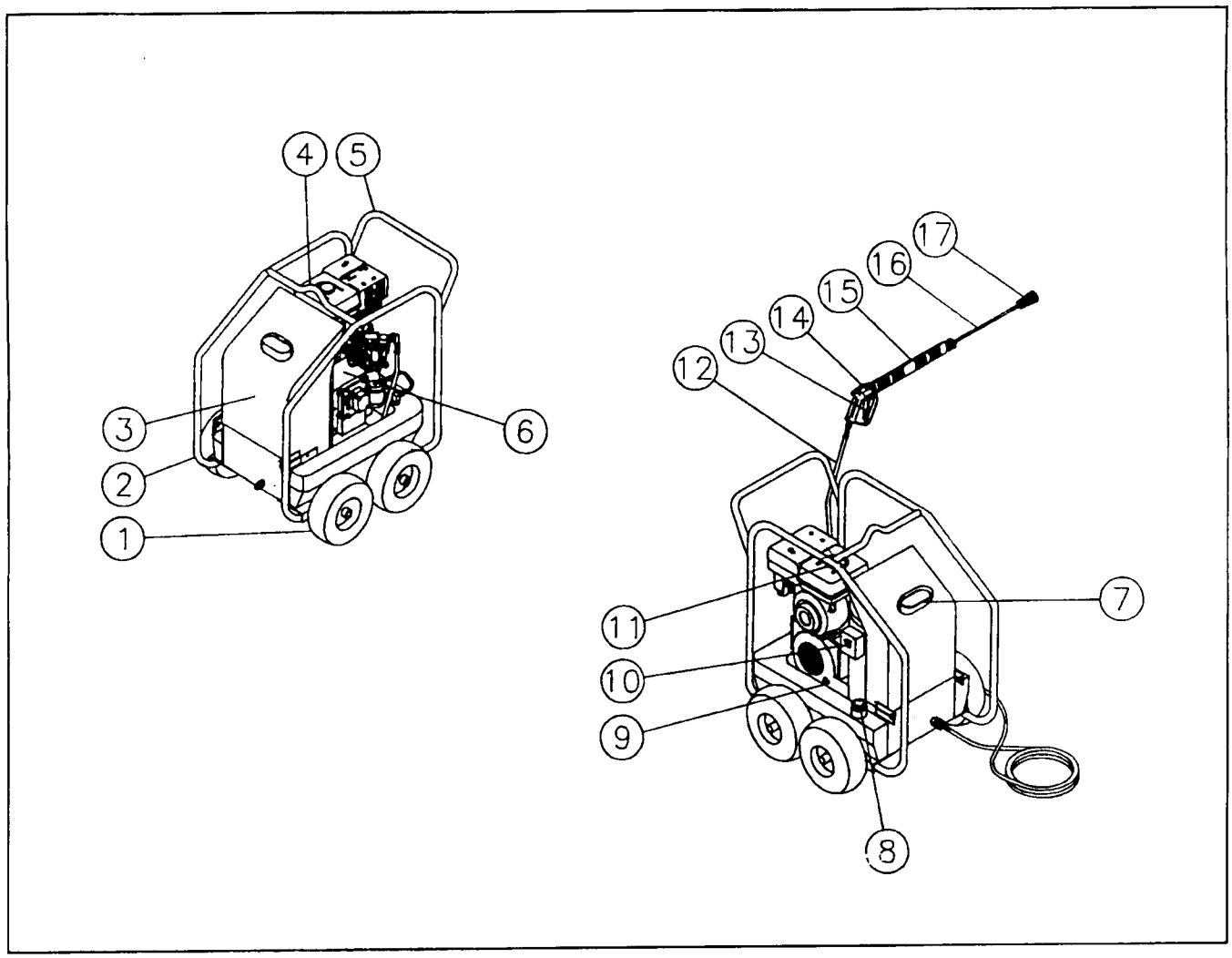
1. NEVER alter or modify the equipment, be sure any accessory items and system components being used will withstand the pressure developed. Use ONLY genuine KENT parts for repair of your pressure washer. Failure to do so can cause hazardous operating conditions and will void warranty.
2. NEVER make adjustments to the machinery while it is connected to the engine without first removing the ignition cable from the spark plug. Turning over the machinery by hand during adjustment or cleaning might start the engine and machinery with it, causing serious injury to the operator.
3. Know how to stop the pressure washer and bleed pressure quickly. Be thoroughly familiar with controls.
4. Follow the maintenance instructions specified in this manual.

SAVE THESE INSTRUCTIONS

SPECIFICATIONS

MODEL NUMBER:	KW-2017-GH
Operating Pressure (PSI/Bar)	2000/137.90 (+/- 5%)
Water Volume (GPM/lpm)	2.7/10.22 (+/- 5%)
Outlet Water Temperature (F/C)	120 F/ 66 C (+/- 20 F) rise above inlet ambient (210 F/ 99 C maximum)
Engine	Honda
Horsepower	5.5
Engine Type	4 Stroke, Overhead Valve, Single Cylinder
Oil Type	SAE 10W 30
Oil Capacity	20 oz. / .6 liter
Low Oil Protection	Oil Alert (Trademark)
Fuel Type	Unleaded Gasoline 86 Octane minimum
Fuel Tank Capacity (Gal./l)	.95/3.6
Starting	Recoil Rope
Maximum No Load RPM	3600 (+/- 100)
Pump	Direct Driven, Oil Bath, Triplex Axial Piston
Oil Type	SAE 30 Non-Detergent Oil
Oil Capacity	6.5 oz. / 184 gm
Plungers	Ceramic
Manifold	Forged Brass with Removable Valve Caps
Valves	Stainless Steel
Unloader	Adjustable 100 - 2000 PSI
Inlet Water Strainer	Removable Clear Bowl for inspection & cleaning of Stainless Steel Screen
Heat Dump Valve	Relieves heated water during unloader by-pass stage
Pressure Gauge	Glycerin filled indicating pressure gauge
Detergent Injector	Adjustable Low Pressure Downstream from Pump
Burner Fuel System	
Fuel Type	No. 1 or No. 2 Fuel Oil, Diesel or Kerosene
Fuel Tank Capacity (Gal / l)	4.0/15.14
Fuel Filter / Water separator	Spin on (10 micron) filter / E-Z water drain
Fuel Pump	Two Line, Single Stage
Fuel Pressure (PSI / Bar)	140/9.65
Fuel Nozzle	1.10 or 1.20 60 degree B Delavan
Fuel Consumption	1.3 to 1.4 GPH Continuous Burning
EMF (Electro-Magnetic Firing) System	Belt Driven, (Patent Pending)
Ignition	Transistorized Magneto
Control Voltage	12 Volt DC
Blower	Forced Air
Heat Exchanger	Vertical, Top Fired, Dual Spiral Coil
BTU Input	182,000 to 197,400
Efficiency	80-83% with #2 Fuel Oil/Diesel
Smoke Density	0-3 per ASTM D2156
Controls	
On/Off Switch	Industrial Grade Rotary Switch
Pressure Switch	Shuts off burner fuel supply upon trigger release
High Limit Switch	Shuts off burner fuel supply when outlet water temp. exceeds 210 F/ 99 C. Automatically resets when temperature is safe.
Fuel Solenoid Valve	12 Volt
Safety Relief Valve	Relieves excess system pressure
Unit Net Weight	267 lbs.
Unit Dimensions	(L) 33.5 x (W) 28.75 x (H) 36.25
Shipping Weight	390 lbs.
Shipping Dimensions	(L) 46.25 x (W) 31.50 x (H) 48.25

FIGURE 1
KW-2017-GH FEATURES



FEATURES LISTING

1. Pnuematic Wheels
2. Protective Rollcage
3. Protective Cover
4. Centered Balanced Lifting Eye
5. Convenient Push/Pull Handle
6. Beltguard
7. Heat Exhanger Exhaust
8. Burner Fuel Tank
9. Burner Air Regulation
10. Burner On/Off Switch
11. Engine Gasoline Tank
12. High Pressure Hose
13. Trigger Safety Lock
14. Trigger Gun
15. Insulated Lance
16. Lance
17. Adjustable Nozzle

SPECIFIC UNIT INFORMATION

FRAME: One piece, welded construction, full rollcage with solid steel axles, lifting hook and convenient push/pull handle, protective steel housing.

PORTABILITY: Four pneumatic tires for easy mobility.

FINISH: Powder coated.

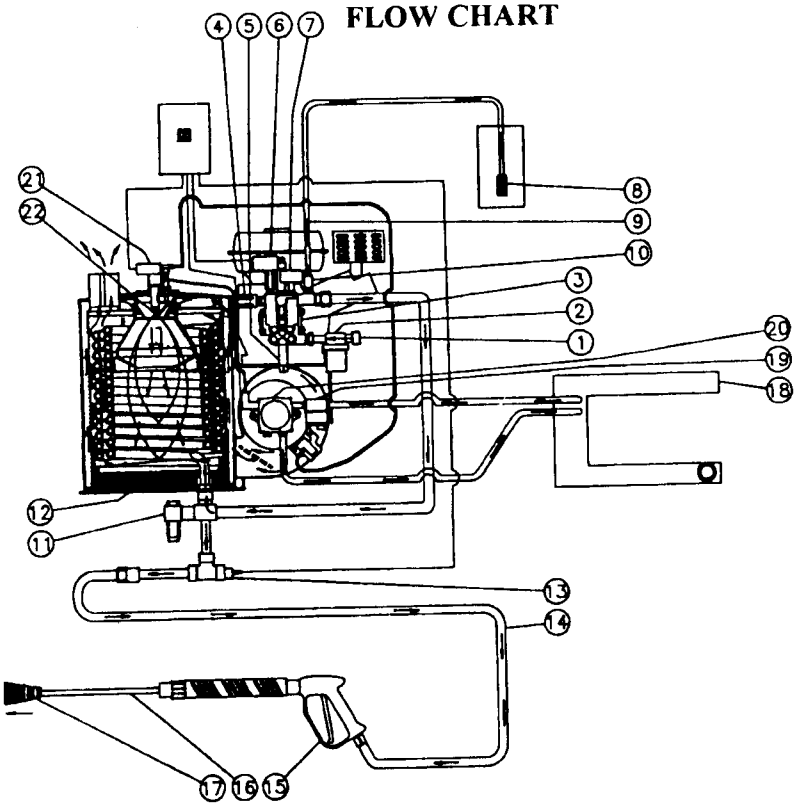
HIGH PRESSURE HOSE: 3/8" x 50'

TRIGGER GUN ASSY.: Trigger controlled, safety lockoff, insulated lance.

LANCE: 33" stainless steel lance with adjustable pressure

FIGURE 2
KW-2017-GH FLOW CHART / EMF SYSTEM

FLOW CHART



EMF SYSTEM

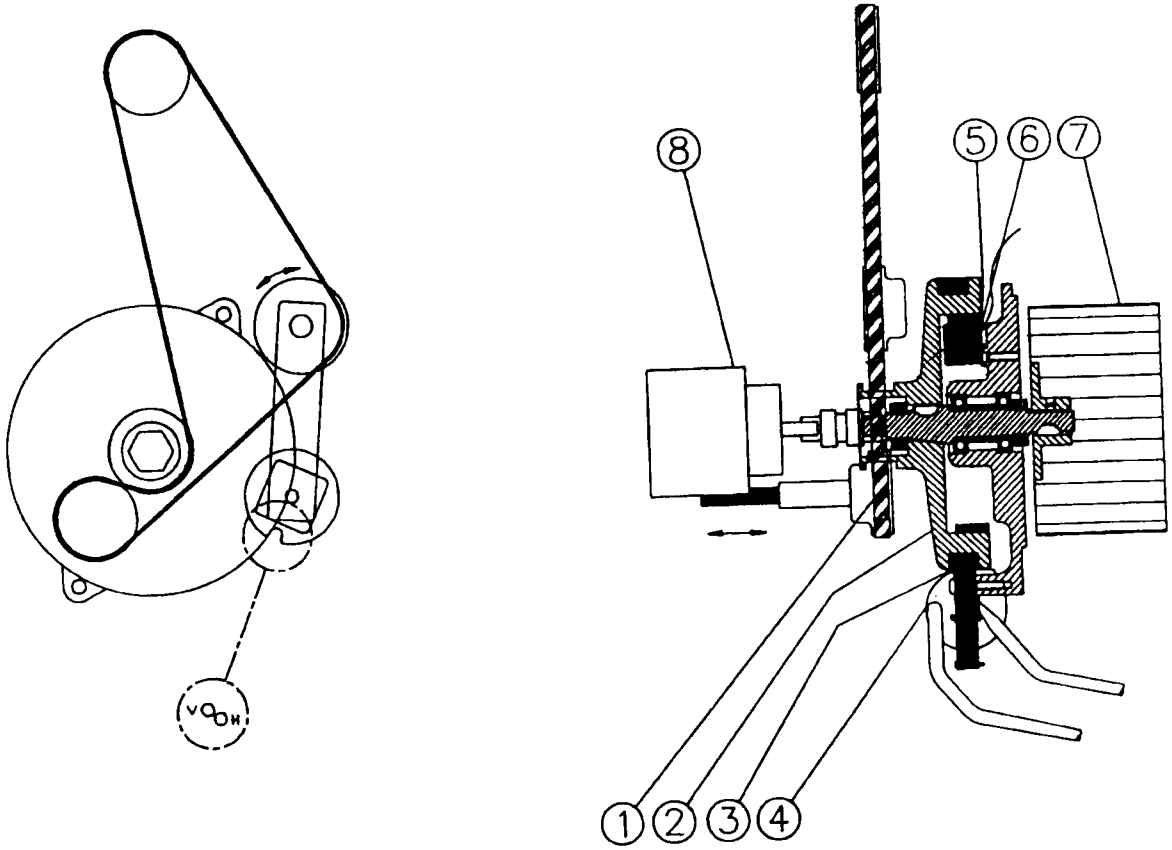


FIGURE 2
GENERAL THEORY OF OPERATION

WATER FLOW :

Connect a pressurized water source to the Inlet Garden Hose Connection (1) and turn on the water supply. The water will flow through a Water Strainer (2) which has a clear inspection bowl.

The water then travels into the Triplex High Pressure Pump (3) which has an Adjustable Unloader (4) that by-passes the water when the trigger gun is closed. To protect the pump from heated water during this by-pass stage, a Heat Dump Valve (5) will open at 140 F/60 C allowing the heated water to escape. The Heat Dump Valve automatically resets when the water cools. Attached to the pump is a Pressure Switch (6) that controls the fuel supply to the burner. A Pressure Gauge (7) shows the performances of the pump.

When using detergents, the solution passes through the Detergent Strainer (8) located on the Detergent Hose (9). The detergent solution then travels into the Adjustable Low Pressure Detergent Injector (10).

The water flows to a Safety Relief Valve (11) which provides secondary pressure protection if the unloader fails.

From there, the water flows through the heat exchanger coil where it is heated when the burner is on. As the water exits the Heat Exchanger (12), a High Temperature Limit Switch (13) senses the temperature and shuts off the fuel supply to the burner if it gets too hot.

The heated water then flows through the High Pressure Hose (14) and to the Trigger Gun Assembly (15) which allows the operator to control the water spray. When the trigger gun is open, the water flows through the Lance (16) and exits the High/Low Pressure Adjusting Nozzle (17).

FUEL FLOW:

The Fuel Pump draws fuel from the Fuel Tank (18) through a replaceable Fuel Filter/Water Separator (19) and into the Fuel Pump (20). Fuel exits the fuel pump, into a Fuel Solenoid Valve (21) which controls fuel flow to the Fuel Nozzle (21) where it ignites and burns in the heat exchanger.

Electro Magnetic Firing (EMF) SYSTEM:

The patent pending EMF System is an integrated system which gives us all the requirements for combustion.

The Belt (1) from the power source turns the Hub (2) which has two Exterior Magnets (3) attached. As these magnets spin past the Ignition Module (4), a magnetic flux is created from which the ignition module produces a high voltage. This voltage arcs across the electrodes giving the spark that is needed for ignition.

This hub has an Internally Mounted Magnet (5) which spins past a Stator (6) that produces the voltage that controls the fuel supply to the heat exchanger. In addition to this, the hub also spins the Blower Fan (7) that forces the air into and through the heat exchanger.

The Fuel Pump (8) is also connected to the hub by means of a flexible coupler.

⚠ *DANGER*

RISK OF EXPLOSION OR FIRE!
DO NOT PLACE UNIT IN AN AREA WHERE FLAMMABLE GAS VAPORS MAY BE PRESENT. A SPARK COULD CAUSE AN EXPLOSION OR FIRE.

⚠ *WARNING*

RISK OF ASPHYXIATION!
-DO NOT OPERATE IN AN ENCLOSED AREA. USE THIS PRODUCT ONLY IN WELL VENTILATED AREAS!
-THE EXHAUST FROM THE BURNER CONTAINS CARBON MONOXIDE, A POISONOUS, ODORLESS AND INVISIBLE GAS. BREATHING THIS GAS CAN CAUSE SERIOUS INJURY, ILLNESS AND POSSIBLE DEATH.

SET-UP:

1. This unit should only be installed on a level surface to ensure proper lubrication for the engine and water pump while operating. Do not allow the unit to be exposed to rain, snow or freezing temperatures.
2. Be certain to block the wheels to prevent the unit from moving while operating.

⚠ *DANGER*

RISK OF FIRE!
-DO NOT SMOKE WHILE FUELING!
-DO NOT FILL THE FUEL TANK WHILE UNIT IS RUNNING OR HOT. ALLOW UNIT & ENGINE TO COOL FOR TWO MINUTES BEFORE REFUELING.
-DO NOT FILL FUEL TANK TO POINT OF OVERFLOWING. ALLOW APPROXIMATELY 1/4" OF TANK SPACE FOR FUEL EXPANSION.

⚠ *WARNING*

RISK OF EXPLOSION OR FIRE!
ALWAYS STORE FUEL AWAY FROM THE WASHER WHILE THE UNIT IS RUNNING OR HOT.

ENGINE OIL LEVEL & FUEL TANK:

1. Check the engine oil level before starting the engine.
2. A minimum of 86 octane is recommended for use with this unit. DO NOT MIX OIL WITH GASOLINE.
3. Purchase fuel in quantities that may be used within 30 days. Use of clean, fresh lead-free gasoline is recommended. Leaded gasoline may be used if lead-free is unavailable. DO NOT use gasoline containing methanol or alcohol.
4. Refer to the Engine manual supplied with this unit for additional recommendations.

BURNER FUEL TANK:

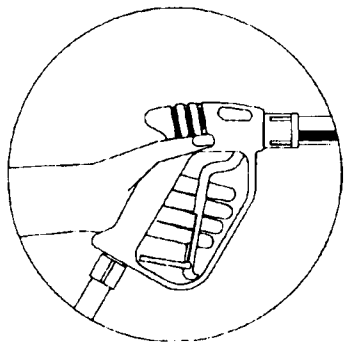
1. Fill fuel tank with good, quality, clean No. 1 or No. 2 fuel oil/diesel or kerosene. Do not use gasoline!

PUMP OIL LEVEL:

1. Once properly installed, check the oil gauge window on the pump crankcase. Make certain the oil is at the correct level indicated by the dot on the gauge. If the level appears to be low, use SAE 30 non-detergent oil.

⚠ *WARNING*
RISK OF SEVERE INJURY!
THE TRIGGER GUN SHOULD ALWAYS BE LOCKED IN THE "OFF" POSITION WHEN NOT IN USE!

FIGURE 3
GUN LOCK

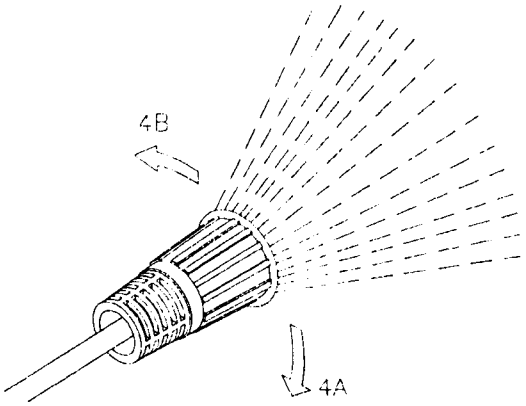


WATER SUPPLY:

1. The water supply hose should be connected to the inlet of the unit. Connect the other end of the hose to your pressurized clean water supply. (NOTE: Hose should be at least 3/4" ID and no longer than 50 feet.)
2. Follow the incoming water pressure requirements listed below:
   a. A minimum of 20 pounds per square inch (PSI).
   b. A maximum of 125 PSI.
   c. Ensure incoming GPM is approximately one gallon more than the outgoing GPM stated on the pressure washer nameplate.
3. The high pressure discharge hose should be screw-connected to the washer. Be certain all connections are securely tightened together. The trigger gun should be locked in the "OFF" position and the lance should be disconnected from the gun assembly at this time.

⚠ *WARNING*
RISK OF INJECTION CAUSING SEVERE INJURY!
-NEVER LOOK DIRECTLY AT THE NOZZLE ORIFICE UNLESS IT IS DISCONNECTED FROM THE SPRAY WAND!
-NEVER ADJUST THE PRESSURE WHILE THE TRIGGER GUN IS OPEN!

FIGURE 4
ADJUSTABLE NOZZLE



ADJUSTABLE NOZZLE:

This unit features a High/Low Pressure Adjusting Nozzle which allows the user to select a high pressure "fan" spray or a low pressure "cone" spray. Simply rotate the collar at the end of the wand to achieve the desired pressure selection. This safety feature eliminates the process of changing nozzles each time you switch from high pressure cleaning to low pressure detergent application.

The High/Low Pressure Adjusting Nozzle has two functions:

1. Selection of high pressure can be achieved by turning the protective collar **clockwise** as shown in Figure 4A, left. While in the high pressure mode, water is directed solely through the 15 degree spray nozzle creating an concentrated high pressure "fan" spray for maximum cleaning power. While using this nozzle, the spray should be directed at a 45 degree angle to the surface for optimum performance.
2. Selection of low pressure detergent applications can be achieved by turning the collar **counterclockwise** as shown in Figure 4B, left. Once the pressure is low enough, the detergent injector on the pressure washer will draw detergent into the system. A water/detergent mixture exits not only from the spray nozzle, but also around the nozzle. This creates a "fan/cone" combination spray pattern which effectively applies detergent and rinses large cleaning areas.

⚠ *CAUTION*

RISK OF UNIT DAMAGE.

Do not overtighten the unloader. Breakage will result in immediate loss of water pressure and costly repairs.

UNLOADER:

1. Adjust the pressure by turning the unloader valve on your unit. To reduce pressure, simply turn the adjustment knob counterclockwise.

ATTIRE:

Proper attire is essential to your safety. It is advised to utilize whatever means necessary to protect eyes, ears, and skin. Additional safety attire (such as a respiratory mask) may be required when using detergent cleaning agents with this washer.

DAILY INSPECTION PROCEDURES:

1. Before starting the unit and after it is started, perform the following:
   a. Check the oil level in the pump and engine.
   b. Inspect the inlet water strainer.
   c. Inspect for system water leaks.
   d. Inspect for oil leaks.
   e. Inspect for fuel leaks.
   f. Inspect high pressure hoses for kinking, cuts and leaks.
   g. Check the water level in the Fuel Filter/Water Separator bowl. Drain if necessary. (See "Specific Maintenance" pg. 17)

END OF PREPARATION & INSTALLATION INSTRUCTIONS

OPERATING INSTRUCTIONS

⚠ WARNING ⚠

DO NOT ATTEMPT TO OPERATE THIS
PRESSURE WASHER
UNTIL YOU HAVE READ AND UNDERSTOOD
ALL SAFETY PRECAUTIONS AND INSTRUCTIONS
LISTED IN THIS MANUAL.

INCORRECT OPERATION OF THIS UNIT
CAN CAUSE SERIOUS INJURY!

DO NOT ALTER OR MODIFY
THIS EQUIPMENT IN ANY MANNER.

OPERATING INSTRUCTIONS

⚠ *CAUTION*

RISK OF MACHINE DAMAGE.

Be certain the nozzle assembly is not connected to the gun assembly while priming the pump. Priming allows mineral deposits to be released from the system which would obstruct or damage the nozzle assembly resulting in costly repairs.

PRIMING THE PUMP:

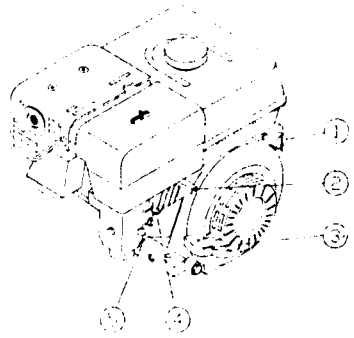
1. Ensure all connections are secure. (NOTE: The trigger gun assembly SHOULD NOT be connected to the stainless steel lance/adjustable nozzle assembly at this time.)
2. Turn on the water supply and squeeze the trigger gun.
3. Water will begin flowing from the hose/gun assembly. This allows the unit to prime and purge any air from the system. The unit is primed when water flow is uninterrupted by air.
4. Once the unit is primed, release the trigger and lock the trigger gun in the "OFF" position. Securely screw-connect the stainless steel lance **counterclockwise**.

⚠ *CAUTION*

RISK OF MACHINE DAMAGE.

Burner switch must be in the "OFF" position while starting the engine. Failure to follow this precaution will damage the burner resulting in extremely costly repairs.

FIGURE 5
HONDA ENGINE



ENGINE STARTUP:

Be certain the Burner switch is in the "OFF" position and start the engine by following the procedures listed below.

1. FUEL VALVE: (Reference 5)

   Open the fuel valve by moving the lever completely to the right.

2. CHOKE LEVER: (Reference 4)

   Move this lever completely to the left to close the choke. Once the engine has started, move the choke lever back to the right.

3. THROTTLE CONTROL: (Reference 2)

   Move the Throttle Control lever completely to the left to set the engine speed to "fast" for startup.

4. ON/OFF SWITCH: (Reference 1)

   Move the ON/OFF switch to the ON position.

5. TRIGGER GUN:

   Point the trigger gun away from yourself or anyone else. Unlock the gun and squeeze the trigger. **Hold the gun open while starting the engine.**

6. STARTER GRIP: (Reference 3)

   Firmly grasp the starter grip and pull slowly until resistance is felt. Once this is achieved, pull cord rapidly.

COLD WATER OPERATION:

1. With the gun locked in the "OFF" position, point the trigger gun away from yourself or anyone else and adjust to the low pressure mode by rotating the collar at the end of the stainless steel lance **counterclockwise**.
2. Disengage the safety lock-off on the gun, brace yourself and squeeze the trigger. Water will exit the lance.

At this point the unit is operating as a cold water pressure washer. It can be used very effectively in many applications where hot water is unnecessary. It is recommended the operator spend an few minutes "getting the feel" of the gun and lance assembly. Experiment to find the most comfortable way to hold the gun and lance. Trigger the gun several times and try adjusting the pressure mode from high to low by rotating the collar at the end of the stainless steel lance. Detergent application is outlined on page 16.

⚠ *WARNING*

RISK OF BURN!
NOZZLE/LANCE ASSEMBLY IS UNINSULATED AND WILL BECOME VERY HOT DURING HOT WATER OPERATION. BE CAUTIOUS WHEN ADJUSTING PRESSURE OR CONTROLLING THE WAND.

HOT WATER OPERATION:

1. Follow the steps outlined above for Start-up and Cold water operation. Adjust the pressure setting to the high pressure mode.
2. Move the Burner Switch (located on the panel next to the engine) to the ON position. On initial startup, water will begin turning hot in approximately 20 seconds and will reach maximum temperature in approximately 2-1/2 minutes, provided the trigger remains squeezed. The burner will stop firing when the trigger is released.

While spraying, it is normal for the burner to fire intermittently. The high-limit switch will cause combustion to cease when the temperature of the discharged water exceeds the temperature setting of the thermostat. Combustion will begin again if the temperature drops below the thermostat setting.

At this point the unit is operating as a hot water pressure washer. Since part of the gun/lance assembly is not insulated, be certain to **be extremely cautious** when adjusting the pressure and controlling the gun/lance assembly to avoid the possibility of burns. Instructions for detergent application are outlined on page 16.

SHUTDOWN:

1. Move the Burner Switch to the OFF position.
2. Squeeze the trigger and discharge the water for a period of three minutes to cool the heat exchanger and high pressure hose. (Insufficient cool down period of the high pressure hose will cause excessive wear and eventual rupturing of the hose.)
3. **DO NOT close the choke to stop the engine.** Backfire or engine damage may occur.
4. Turn the Throttle Lever completely to the right to the "slow" position.
5. Move the engine ON/OFF Switch to the "OFF" position.
6. Close the engine fuel shutoff valve by moving the valve in the left direction to the closed position.
7. Turn off the water supply and trigger the gun momentarily to relieve trapped pressure.
8. Disconnect and store hoses. Store unit in a non-freezing environment.

⚠CAUTION

RISK OF MACHINE DAMAGE.

Mild detergents are specially formulated for use with this pressure washer. Use of other chemicals or solvents may be harmful to your unit resulting in costly repairs.

CLEANING WITH DETERGENTS:

1. Prepare detergent solution according to label directions.
2. Adjust the amount of detergent desired by locating the adjustment knob at the end of the clear vinyl hose near the pump head. Turn the knob completely counterclockwise to set at the maximum siphon rate.
3. Immerse the strainer into the detergent solution to allow detergent to siphon. With the trigger gun locked in the "OFF" position, move the collar at the end of the wand counterclockwise.
4. Start the unit as directed in "Priming the Pump & Cold Water Operation" procedures stated on page 14 &15.
5. With the gun pointing away from yourself or anyone else, unlock the trigger gun and squeeze the trigger. In a few moments a detergent/water mixture will exit the nozzle.
6. Apply the solution by spraying the lower portion of the surface being cleaned and move up, using long overlapping strokes to help avoid streaking. DO NOT allow detergent solution to dry on surface.
7. To rinse, turn OFF the detergent siphoning feature by rotating the adjustment knob at the end of the clear vinyl hose clockwise. It will take approximately 30 seconds to purge all detergent from the line.
8. For best rinsing results, start at the top and work down.
9. Siphon a gallon of water through the low pressure detergent injection system after each use. This prevents the possibility of corrosion or detergent residue causing mechanical problems during the next use.

STORAGE & MAINTENANCE

WINTERIZING:

1. For transportation and storage purposes in sub-freezing weather conditions it will be necessary to "winterize" this unit. Following the instructions below can prevent costly repairs due to freeze damage. This unit should be protected to at least zero degrees Fahrenheit.

   ITEMS NEEDED:

   1. Blow-down valve kit (#M852-0066).
   2. Air line with air chuck.

   PROCEDURE:

   1. Ensure the water supply hose is disconnected and the adjustable nozzle assembly is detached from the gun assembly.
   2. Assemble the blow-down valve to the water inlet of the unit.
   3. Open the trigger gun and attach the air line to the blow-down valve to blow water from the system.
   4. Continue blowing air for approximately five minutes.
   5. Detach the air line and release the trigger gun.
   6. Disassemble the blow-down valve from the unit inlet and store the hose, gun and wand assembly with the unit in a safe area.

STORAGE & MAINTENANCE

GENERAL MAINTENANCE GUIDELINES:

1. ALWAYS follow the "Shutdown" procedures outlined in the "OPERATION" section of this manual.
2. DO NOT store the machine in a freezing environment. This can cause the coil/heat exchanger to rupture and "lock-up" conditions in the water pump. NEVER pour hot water on a frozen pump. A temperature change greater than 150 degree Fahrenheit can cause damage to the pump. If storage in freezing conditions is necessary, follow the winterizing procedures listed on page 16.
3. If the mineral content of the incoming water supply is high, it is recommended that a water softener be installed to avoid the accumulation of mineral deposits in the coil/heat exchanger. If this is not possible, it will be necessary to "descale" the coil occasionally. Consult an authorized service person.
4. DO NOT allow pump to run dry (without incoming water line attached and turned all the way on.)
5. There is a water screen at the water intake on the unit. It should be inspected, removed and cleaned as necessary or after every 20 hours of use. (See "Water Strainer Cleaning" in Specific Maintenance below.)
6. DO NOT allow the unit to operate in the bypass mode (with the trigger released) for more than three minutes without triggering the gun. Failure to follow this simple rule can cause premature failure of the pump packings and seals, resulting in costly pump repair. (NOTE: A heat dump valve has been installed on this unit to help prevent harmful increase in water temperature. When the water in the pump exceeds an acceptable temperature, the hot water will discharge out of this valve, which in turn, introduces fresh cold water into the pump.)
7. Promptly eliminate any leaks found in the pumping system by removing suspect parts, applying thread sealant to the threads and reinstalling. NOTE: IF using teflon tape, be certain no tape gets inside any plumbing to prevent the possibility of a plugged spray nozzle.
8. Due to the unknown and often corrosive characteristics of many detergents commonly used in the pressure washer cleaning industry, it is recommended to use only mild detergents with this unit.
9. Upon finishing the use of the detergent, be certain to run a gallon of clean water through the injection line to flush out any possibly corrosive agents as well as to prevent the possibility of detergent residue impairing any working parts. Clean the detergent strainer after each use to ensure proper operation for the next job.
10. Use only a good quality, clean No. 1 or No. 2 fuel oil/diesel or kerosene in the burner.
11. Have the screen in the fuel pump on the burner inspected and/or replaced at least once yearly.
12. NEVER spray water directly into the unit or store the unit outdoors where it can be exposed to rain or other adverse weather conditions.

SPECIFIC MAINTENANCE:

1. WATER STRAINER CLEANING: Periodic cleaning of the water strainer is one easy way to prevent pump problems. As a strainer becomes obstructed it restricts proper flow of water to the pump. This can result in cavitation which will cause premature failure of pump packings. Remove the screen and clean.
2. HOSE: Inspect high pressure hoses daily for signs of wear. If evidence of failure exists, promptly replace all suspect hoses to prevent the possibility of injury from high pressure spray.
3. NOZZLES: Water flow through the spray nozzle will erode the orifice, making it larger, resulting in a pressure loss. Nozzles should be replaced whenever pressure is less than 85% of maximum. The frequency of replacement will depend upon such variables as mineral content in water and number of hours being used.
4. FUEL WATER SEPARATOR: The fuel filter has a built-in water separator. Occasionally the water has to be drained from the separator. Follow the procedures outlined below:
   a. Check the collection bowl daily.
   b. Ensure the unit is "OFF" and place an oil catch basin under the fuel cartridge.
   c. Open the vent and then the drain. Once the drain is open, close the vent to allow the water/contaminants to flow into the catch basin.
   d. Dispose of drainage according to environmental regulations in your area.

STORAGE & MAINTENANCE

BURNER AIR ADJUSTMENT:

The air shutter has been factory set for proper operation between sea level and 2000 feet elevation at standard conditions (60 degrees F ambient water and air temperatures). To assure maximum combustion efficiency at colder temperatures and higher altitudes, it will be necessary to increase the air supply to the combustion chamber. A smoke spot tester is recommended during any air shutter adjustment. This will aid in maximizing the burner efficiency and avoid inefficient operation and excessive sooting of the heat exchanger coil.

1. The machine must be running and the burner ON.
2. Take a smoke spot test to determine if more or less air is required for proper combustion.
   a. If the test is greater than a #3 smoke, turn the shutter arm clockwise to increase the air flow into the combustion chamber.
   b. If the test is yellowish in color, turn the shutter arm counterclockwise to decrease the air flow into the combustion chamber.
3. Hold onto the air shutter adjusting arm and loosen the locking nut. Move the shutter in 1/8" increments and re-tighten the locking nut after each 1/8" movement.
4. Trigger the gun on and off slowly to make sure there is proper ignition. Slight or no puffing on ignition, and a smoke spot test of less than #3 smoke is good.
5. Repeat steps 2 & 3 until step 4 is attained.

DEALER MAINTENANCE:

Your KENT dealer is qualified to perform the following maintenance procedures outlined below. Contract with this person to service your pressure washer at least once every three months. Cost is minimal, and a small investment in preventative maintenance will add countless hours to the life of your pressure washer.

PROCEDURE	Daily	3 Months	6 Months	9 Months	12 Months
Check engine oil level	X				
Change engine oil		X	X	X	X
Check water pump oil level	X				
Change water pump oil*		X	X	X	X
Oil leak inspection	X				
Fuel leak inspection	X				
Water leak inspection	X				
Hose inspection	X				
Inlet water strainer inspection	X				
Drain Fuel Filter/Water Separator	X				
Check belt tension		X	X	X	X
Replace high pressure nozzle					X
Replace Fuel Filter/Water Separator		X	X	X	X
Inspect fuel pump filter					X
Replace fuel nozzle					X
Check burner air adjustment		X	X	X	X
Check burner electrodes					X
Test water pressure		X	X	X	X
Test fuel pressure		X	X	X	X
Test water temperature		X	X	X	X
Descale coil**					X

*The pump oil must be changed after the first 50 hours of operation and every 250 hours, or 3 months, whichever comes first. (Use SAE 30 non-detergent oil and fill only to the dot on the sight glass.)

**Scale build-up will vary with mineral content in the water and amount of usage. Descaling can range from monthly to yearly maintenance.

GENERAL OPERATOR TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
PUMP:		
Pump runs but there is no spray.	Water supply not turned on.	Check incoming water supply.
	Obstructed spray nozzle.	Remove nozzle, clean or replace.
Pump runs but has low spray pressure.	Inadequate incoming water supply.	Provide sufficient water supply
	Air leak in inlet plumbing.	Check all incoming connections for water tight seals.
	High pressure spray mode not engaged.	Rotate the collar at the end of the wand clockwise.
	Wrong orifice size or worn nozzle.	Replace with correct or new nozzle.
Pump runs, but there is fluctuating pressure; hose pulsates.	Inadequate incoming water supply.	Provide sufficient water supply.
	Air is entering water lines.	Check all incoming hose connections for watertight seals.
	Inlet water strainer is clogged.	Remove and clean strainer.
	Fouled or dirty pump valves.	Clean or replace.
	Worn pump V-packings.	Replace.
Water leak under pump manifold.	Worn pump V-packings.	Replace.
Oil leak.	Worn seals or o-rings.	Consult Service Center.
Pump oil appears milky	Humid air condensing in crankcase.	Change pump oil. Flush & fill to proper level.
DETERGENT:		
Detergent will not siphon into low pressure injection line.	Detergent strainer obstructed or not submerged in solution.	Ensure strainer screen is clean and submerged completely in solution.
	Detergent hose cut or kinked.	Inspect hose, replace if necessary.
	Detergent adjustment knob closed or obstructed.	Check knob, clean if necessary.
	Low pressure spray mode not engaged.	Rotate collar at the end of the lance counterclockwise.
Water flows back into the detergent container.	Ball and spring in venturi injector reversed, missing or corroded.	Remove and clean or replace as necessary.

BURNER TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
BURNER:		
Burner will not ignite.	No fuel.	Check fuel level in burner fuel tank.
	Dirty or clogged fuel filter/water-separator.	Drain or replace as necessary.
	Fuel pump inoperative.	Check pressure, replace if necessary.
	Dirty or clogged fuel nozzle.	Replace fuel nozzle.
	Loose V-belt.	Adjust or replace as necessary.
	Flexible coupler broken.	Replace.
	No voltage.	Consult Service Center.
	Burner switch not in ON position.	Check switch position.
	Trigger gun is closed.	Open gun for pressure.
	Pressure switch override.	Pressure should be over 250 PSI/18 Bar to allow burner to come on.
	High Limit switch override.	Allow unit to cool down before re-igniting.
	Fuel solenoid valve failure.	Replace.
	Ignition module.	Consult Service Center.
	Ignition electrodes damaged or worn.	With unit running and trigger gun closed, look through burner sight glass to ensure there is sparking across electrodes.
	Poor burner air adjustment.	Adjust.
Burner runs erratically.	Water in the fuel oil.	Drain fuel filter/water separator OR drain fuel tank and replace with clean fuel.
	Dirty fuel filter/water separator.	Replace element.
	Dirty fuel nozzle.	Replace.
	Improper air adjustment setting.	Adjust.
Burner runs but will not heat.	Poor or improper fuel supply.	Check fuel to ensure it is correct. Drain tank if necessary and refill with proper fuel.
	Low fuel pump pressure.	Check fuel pump pressure, replace if needed
	Dirty fuel nozzle.	Replace.
	Improper air adjustment setting.	Adjust.
	Scale build up in heat exchanger coil.	Consult Service Center.
Burner releases black smoke.	Lack of sufficient air supply.	Adjust burner air shutter.

PLEASE CONTACT KENT CUSTOMER SERVICE WITH ANY ADDITIONAL QUESTIONS

Please have the following information available for ALL service calls:

1. Model number.
2. Serial number.
3. Date and place of purchase.

KW-2017-GH
PARTS LISTING

⚠ WARNING ⚠

THIS IS A PROFESSIONAL HIGH PRESSURE, HOT WATER WASHER.
CAUTION SHOULD BE OBSERVED WHEN USING OR REPAIRING THIS UNIT!
READ AND FOLLOW THE SAFETY WARNINGS LISTED BELOW
BEFORE
ATTEMPTING ANY REPAIRS ON THIS PRESSURE WASHER!

1. NEVER make adjustments on machinery while the unit is connected to the engine without first removing the ignition cable from the spark plug. Turning over the machinery by hand during adjustment or cleaning might start the engine and machinery with it, causing serious injury to the operator.

2. Know how to stop the pressure washer and bleed pressure quickly. Be thoroughly familiar with controls.

3. NEVER alter or modify the equipment; your personal safety as well as the function of the equipment is at stake.

4. Use ONLY genuine KENT parts for repair of your pressure washer. Failure to do so can cause hazardous operating conditions and will VOID warranty.

5. Be sure any accessory items and system components being used will withstand the pressure developed. This pressure washer produces 2000 PSI at 2.7 GPM (+/- 5%). Therefore, all components must be rated a minimum of 2000 PSI working pressure.

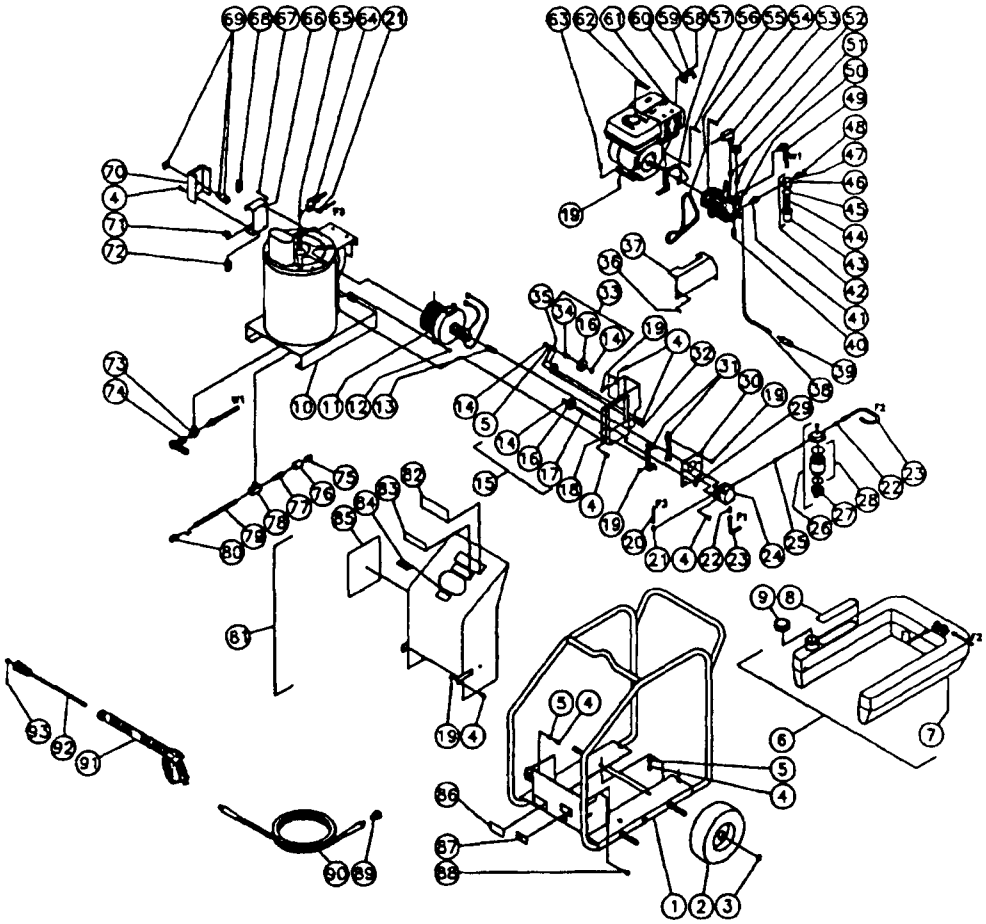
6. When servicing this machine, be especially careful to properly dispose of any flammable materials.

7. After testing the machine, DO NOT leave pressurized unit unattended. Shut off the unit and release trapped pressure before leaving.

NOTICE

The contents of this Parts Listing are based on the latest product information available at the time of publication. The manufacturer reserves the right to make changes in price, color, materials, equipment, specifications or models at any time without notice.

KW-2017-GH FRAME ASSEMBLY



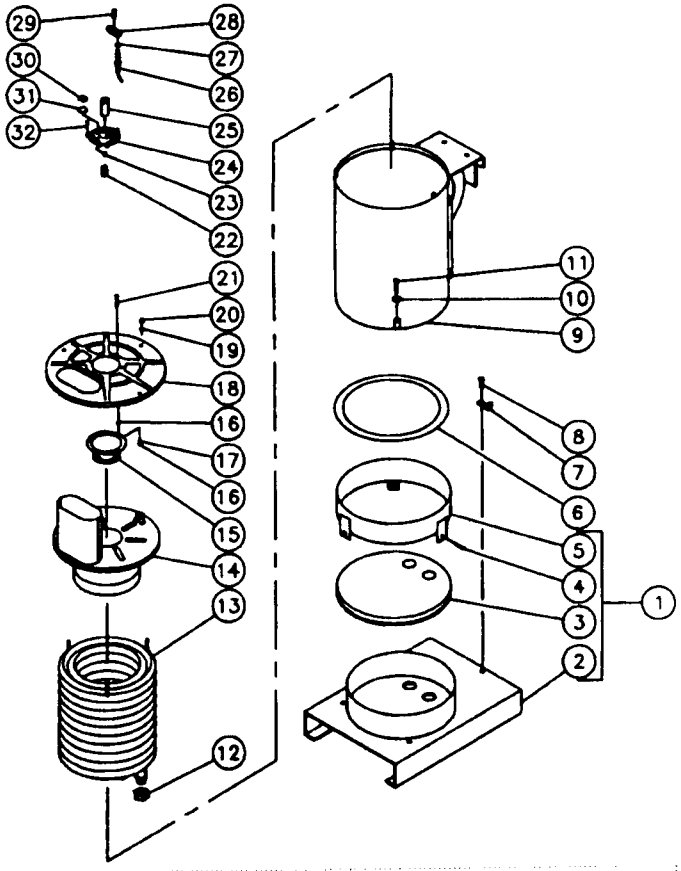
REF #	PART #	DESCRIPTION	QTY.
1	M5-9002	Roll cage frame assembly	1
2	M14-0017	Wheel-pnuematic	4
3	M33-0018	Hub cap - 5/8"	4
4	M27-9524	Bolt	23
5	M28-0022	Flatwasher	11
6	M850-0163	Fuel tank assembly	1
7	M23-0238	Plug	1
8	M34-0539	Decal-Risk of Fire	1
9	M12-0033	Fuel cap	1
10	M33-0204	Boiler assembly complete	1
11	M850-0159	Ignition assembly	1
12	M30-3022	Hex nut	2
13	M33-0225	Flexible coupler-fuel pump	1
14	M30-0159	Hex nut	3
15	M850-0167	Adjustable sheave shaft assembly	1
16	M850-0171	Sheave-2" O.D.	2
17	M33-0221	Pulley shaft	1
18	M20-0353	Fuel pump bracket	1
19	M30-3023	Hex nut	15
20	M33-0217	Fuel line	1
21	M23-0248	Elbow-flare 90°	2
22	M23-0247	Male connector	2
23	M15-0147	Fuel hose	2
24	M3-0129	Fuel pump-left hand	1
25	M23-0250	Hex nipple	1
26	M19-0070	Filter for Fuel/Water separator	1

KW-2017-GH FRAME ASSEMBLY (Continued)

REF #	PART #	DESCRIPTION	QTY.
27	M19-0071	Replacement bowl for Fuel/Water separator	1
28	M19-0053	Replacement filter for Fuel/Water separator	1
29	M30-0010	Hex nut	1
30	M20-0363	Plate for fuel pump mounting	1
31	M20-0360	Bracket for fuel pump mounting plate	2
32	M33-0211	Idler pin	1
33	M850-0166	Tensioner sheave for shaft assembly	1
34	M33-0212	Idler shaft	1
35	M10-0071	Tensioner base-self adjusting	1
36	M27-9526	Bolt-serrated flange	2
37	M20-0362	Beltguard	1
38	M15-0021	Detergent hose	6 feet
39	M19-0050	Detergent strainer	1
40	M22-0148	Thermo-valve-145° F	1
41	M23-0241	Hex adapter	1
42	M19-0057	Strainer complete (Ref. #43-48)	1
43	M19-0060	Strainer bowl	1
44	M19-0059	Stainless steel screen	1
45	M26-0160	Strainer gasket	1
46	M19-0058	Strainer cap	1
47	M23-0095	Garden hose swivel	1
48	M26-0001	Garden hose gasket	1
49	M15-0144	Pressure hose	1
50	M3-0105	High pressure pump-axial piston	1
51	M39-0081	Valve plug tapped	2
52	M22-0206	Pressure gauge	1
53	M850-0173	Pressure switch	1
54	M27-0849	Bolt	4
55	M11-0037	Belt	1
56	M43-0073	Key	1
57	M38-0039	Flange guard	1
58	M27-3093	Screw	2
59	M45-0051	Muffler deflector-Honda	1
60	M45-0052	Muffler guide	1
61	M1-0013	Engine-Honda 5.5 HP Recoil	1
62	M34-0558	Decal-Hot Surface/Cool to refuel	1
63	M27-9525	Bolt	4
64	M44-0098	Solenoid - 12 Volts DC	1
65	M23-0249	Elbow - 90°	1
66	M20-0356	Backplate for electric box	1
67	M27-9528	Bolt	4
68	M32-0394	Terminal strip	0.5
69	M32-0399	Cam switch	1
70	M20-0357	Cover for electric box	1
71	M32-0292	Lock nut-electric	1
72	M9-0046	Bushing	1
73	M850-0169	Coil inlet connector assembly	1
74	M850-0165	Pop off valve assembly	1
75	M9-0044	Bushing	1
76	M23-0251	Coupler	1
77	M32-0400	High limit switch probe	1
78	M850-0168	Coil outlet connector assembly	1
79	M24-0122	Nipple	1
80	M23-0197	Hex reducer	1
81	M850-0172	Hood assembly with labels	1
82	O52283	Decal-KENT logo	1
83	M34-0586	Decal-KENT model number	1
84	M34-0559	Decal-Hot Surface/Coil Exhaust	1
85	M34-0556	Decal-Pictoral:Warning/Caution/Operation	1
86	O56837	Decal-Data plate serial number	1
87	M34-0433	Decal-Spray warning	1
88	M62-0057	Screw cover	1
89	M17-0035	Screw connect	1
90	M15-0146	Hose assembly - 3/8" x 50'	1
91	M16-0288	Gun with Insulated Lance assembly	1
92	M16-0289	Lance with Adjustable nozzle	1
93	M18-0054	Nozzle - 15 degree	1

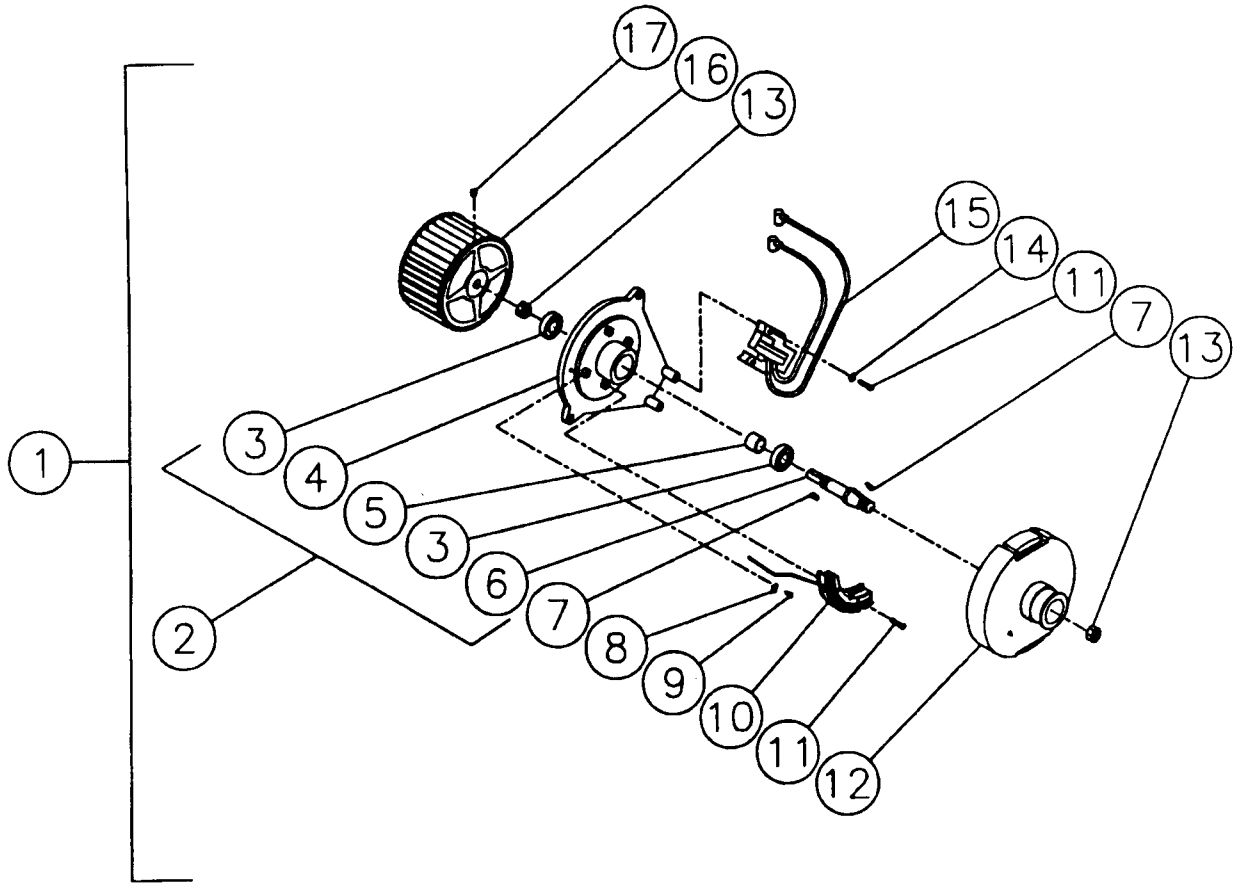
BOILER ASSEMBLY (#M33-0204)

FOR KW-2017-GH



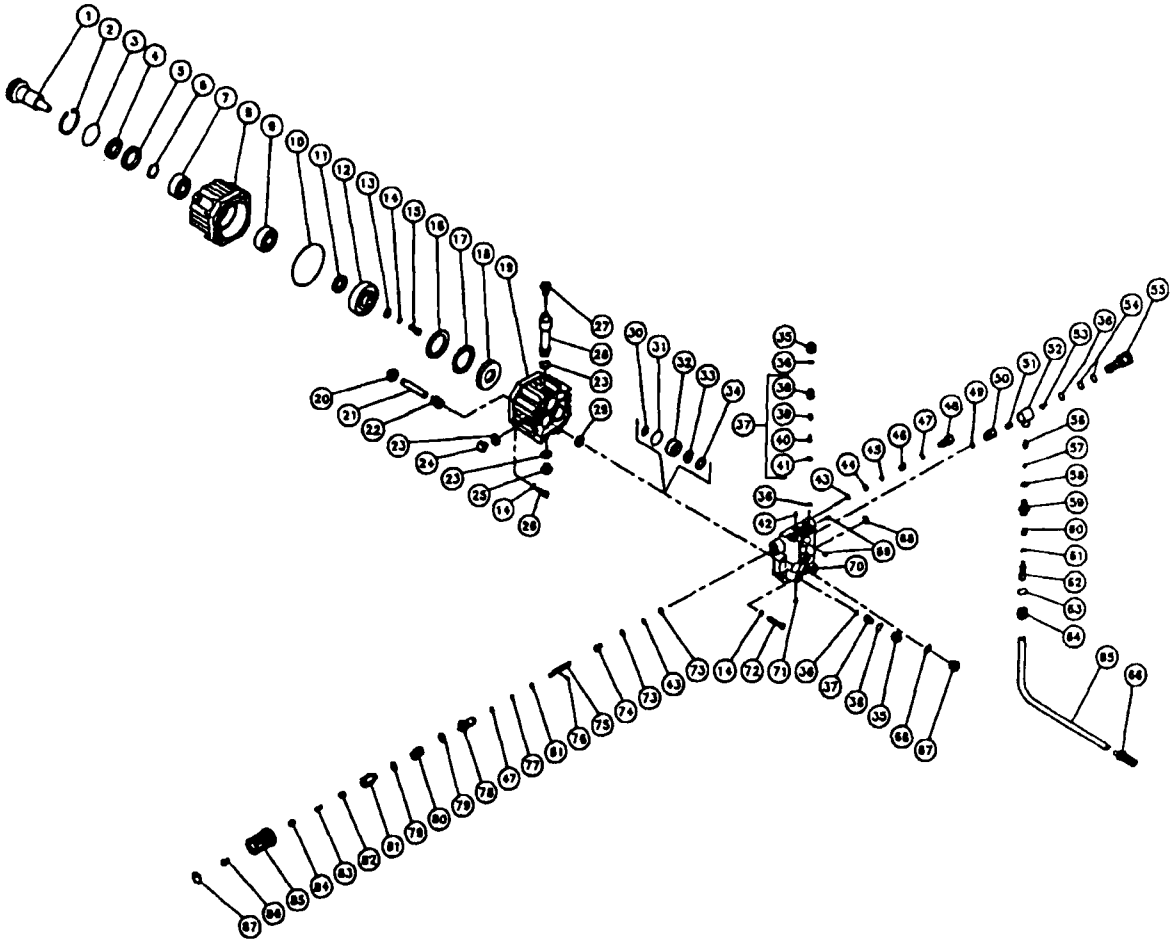
REF #	PART #	DESCRIPTION	QTY
1	M5-0109	Base support complete (Incl. items 2-5)	1
2	N/A	Base support (N/A separately)	1
3	N/A	Insulation (N/A separately)	1
4	N/A	Screw (N/A separately)	1
5	N/A	Fixing ring (N/A separately)	1
6	M33-0175	Nonconductive ring	1
7	M20-0352	Bracket	1
8	M27-9524	Bolt	1
9	M20-0348	Outer wrap assembly	3
10	M28-1011	Washer	3
11	M27-8802	Bolt	2
12	M30-6004	Nut	1
13	M33-0181	Boiler assembly (Coil)	1
14	M20-0324	Exhaust pan	1
15	M20-0325	Heat deflector	6
16	M30-6001	Nut	3
17	M28-1009	Washer	1
18	M20-0323	Top pan	3
19	M28-0063	Flatwasher	3
20	M30-6002	Nut	3
21	M27-8806	Bolt	1
22	M18-0268	Fuel nozzle - 1.10 60° B	--
22	M18-0269	Fuel nozzle - 1.20 60° B (Option)	1
23	M27-8805	Bolt	1
24	M33-0183	Support plate	1
25	M33-0182	Nozzle holder	2
26	M32-0377	Electrode	2
27	M28-1007	Washer	1
28	M33-0180	Electrode mounting plate	1
29	M27-8807	Bolt	1
30	M25-0290	Snap ring	1
31	M33-0179	Sight glass	3
32	M27-8803	Bolt	

EMF SYSTEM ASSEMBLY (#M850-0159)
FOR KW-2017-GH



REF #	PART #	DESCRIPTION	QTY
1	M850-0159	Ignition system assembly	1
2	M850-0162	Blower flange assembly	1
3	M48-0041	Bearing	2
4	M38-0040	Flange	1
5	M33-0206	Spacer	1
6	M20-0347	Shaft	1
7	M43-0080	Key	2
8	M32-0403	Cable clamp	1
9	M27-3062	Screw	1
10	M32-0396	Stator coil - 12V 1.5 Amp	1
11	M27-0740	Screw	4
12	M38-0041	Flange	2
13	M30-0177	Hex nut	2
14	M28-0010	Flatwasher	2
15	M850-0161	Ignition assembly	1
16	M44-0097	Blower fan	1
17	M30-3021	Screw	1

HIGH PRESSURE PUMP ASSEMBLY (#M3-0105)
FOR KW-2017-GH

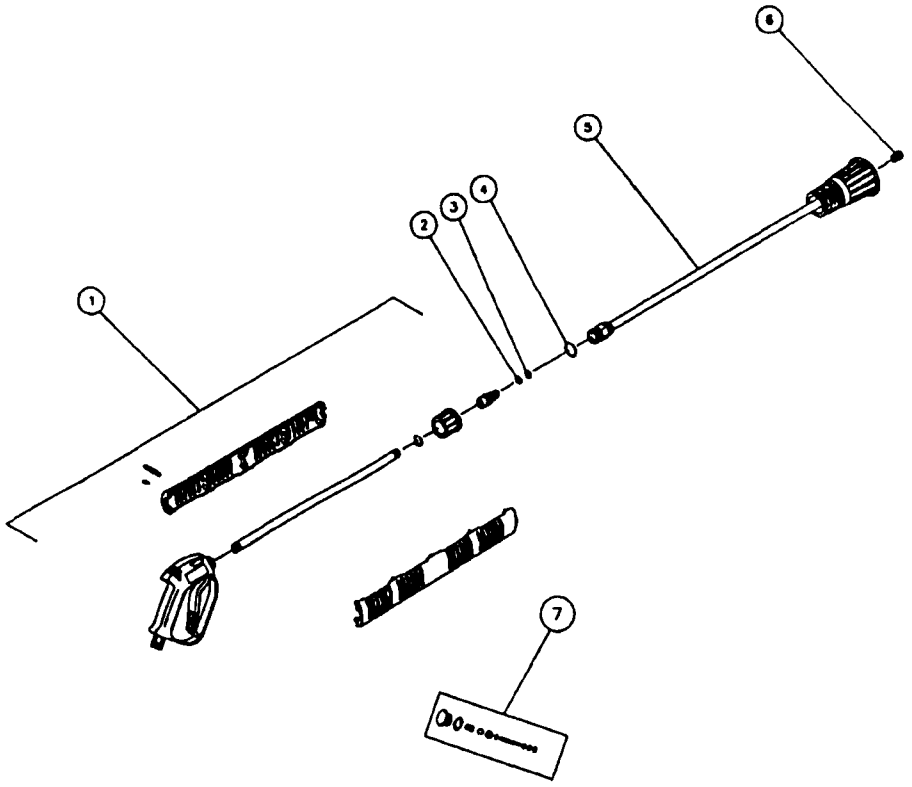


REF #	PART #	DESCRIPTION	QTY
1	M46-0588	Pump shaft	1
2	M46-0405	Circle clip	1
3	M25-0272	O-ring	1
4	M46-0425	Oil seal	1
5	M46-0407	Spacer	1
6	M46-0406	Circle clip	1
7	M48-0036	Rear bearing	1
8	M52-0028	Flange	1
9	M48-0037	Front bearing	1
10	M25-0243	O-ring	1
11	M46-0468	Washer	1
12	M46-0616	Wobble plate	1
13	M28-0133	Washer	9
14	M29-0154	Lockwasher	1
15	M27-8432	Bolt	1
16	M48-0047	Rear bearing disc	1
17	M48-0048	Bearing	1
18	M48-0049	Front bearing disc	1
19	M46-0426	Pump housing	3
20	M46-0362	Piston spring retainer	3
21	M46-0578	Ceramic piston	3
22	M49-0081	Piston spring	3
23	M26-0168	Gasket	1
24	M46-0582	Oil sight glass	

HIGH PRESSURE PUMP ASSEMBLY (#M3-0105) Continued

REF #	PART #	DESCRIPTION	QTY
25	M39-0065	Oil drain plug	1
26	M27-8194	Bolt	4
27	M39-0066	Oil cap	1
28	M46-0351	Oil tube extension	1
29	See kit	Oil seal (N/A separately)	3
30	See kit	O-ring (N/A separately)	3
31	See kit	O-ring (N/A separately)	3
32	M9-0060	V-packing retainer	3
33	See kit	V-packing (N/A separately)	3
34	See kit	Packing ring (N/A separately)	6
35	M46-0628	Valve plug	6
36	M25-0335	O-ring	13
37	See kit	Valve complete (Incl. 38-41 N/A separately)	6
38	See kit	Valve cage (N/A separately)	6
39	See kit	Valve spring (N/A separately)	6
40	See kit	Valve plate (N/A separately)	6
41	See kit	Valve seat (N/A separately)	6
42	M27-8821	Screw	2
43	M25-0230	O-ring	2
44	M46-0409	Valve seat	1
45	M46-0394	Ball	1
46	M46-0411	Valve spring	1
47	M25-0255	O-ring	2
48	M46-0412	Plug-brass	1
49	M25-0334	O-ring	1
50	M46-0626	No return valve	1
51	M49-0110	Spring	1
52	M46-0620	Injector body	1
53	M46-0415	Injector nozzle	1
54	M25-0263	O-ring	2
55	M46-0627	Pressure outlet	1
56	See kit	Spring (N/A separately)	1
57	See kit	Ball (N/A separately)	1
58	See kit	O-ring (N/A separately)	1
59	M46-0417	Injector nipple	1
60	M49-0088	Injector spring	1
61	See kit	O-ring (N/A separately)	2
62	M46-0418	Injector piston	1
63	M25-0277	Flexible ring	1
64	M46-0469	Injector regulating knob	1
65	M15-0021	Detergent hose	6 foot
66	M19-0050	Detergent strainer	1
67	M39-0072	Manifold plug	1
68	M25-0273	O-ring	2
69	M27-8822	Screw	2
70	M46-0629	Manifold-brass	1
71	M27-8198	Screw	1
72	M27-8388	Bolt	4
73	M25-0247	Back-up ring	2
74	See kit	Piston by-pass (N/A separately)	1
75	See kit	Pin (N/A separately)	1
76	M46-0421	Roll pin	1
77	See kit	Back-up ring (N/A separately)	1
78	See kit	Plug-brass (N/A separately)	1
79	M46-0463	Washer	2
80	M49-0089	Pressure regulation spring	1
81	M46-0420	Pressure regulation screw	1
82	M27-8853	Screw support	1
83	M27-8810	Bolt	1
84	M27-8852	Internal screw	1
85	M7-0091	Pressure regulation knob	1
86	M27-8086	Screw	1
87	M7-0088	Cap	1
	M70-0001	Oil seal kit (Includes 3 each item 29)	
	M70-0002	Packing kit (Includes 3 each 30,31,33, 34)	
	M70-0003	Valve kit (Includes 6 each items 36 and 37)	
	M70-0110	Unloader seat (Includes items 43-48)	
	M70-0004	Unloader assembly (Includes items 73-87)	
	M70-0006	Manifold assembly (Includes items 30-87)	
	M70-0005	Injector assembly (Includes items 49-64)	
	M852-0056	Injector repair kit (Includes 56,57, 58 and 61)	

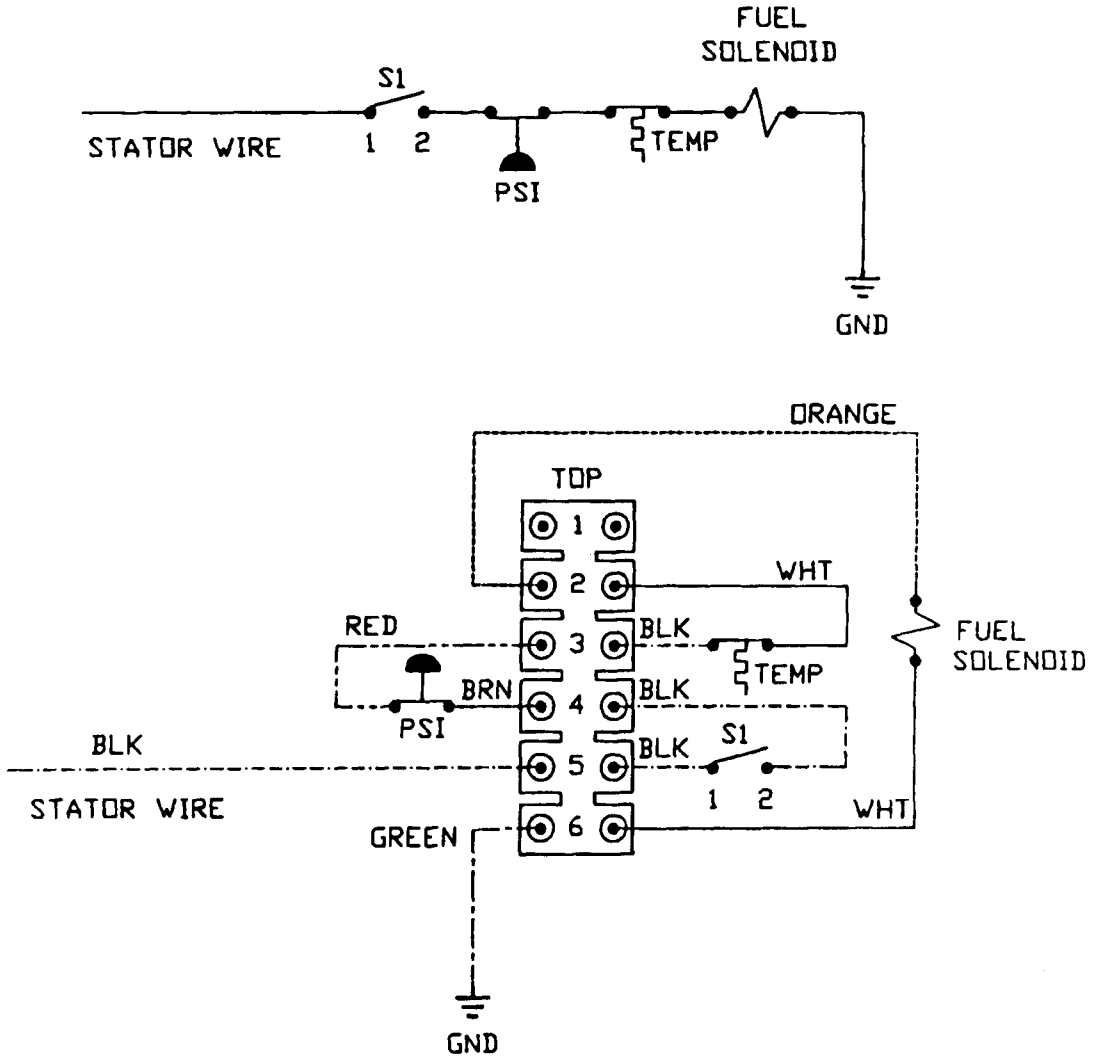
GUN, LANCE & HOSE ASSEMBLY (#M16-0288 & M16-0289)
FOR KW-2017-GH



REF #	PART #	DESCRIPTION	QTY
1	M16-0288	Gun/Wand assembly	1
2	M16-0242	O-ring	1
3	M25-0322	O-ring	1
4	M25-0318	O-ring	1
5	M16-0289	Wand extension	1
6	M18-0054	Nozzle	1
7	M70-0057	Gun repair kit	1
	M16-0191	Gun only	

NOTE: Must order M16-0288 & M16-0289 for Complete Gun Assembly

WIRING SCHEMATIC / DIAGRAM ASSEMBLY
FOR KW-2017-GH



NOTES

NOTES

THE KENT LIMITED WARRANTY

Your Kent equipment which has been manufactured, tested and inspected in accordance with carefully specified engineering requirements, is warranted to be free from defects in material and workmanship. This warranty is, however, subject to the following qualifications, conditions and limitations which are set forth to provide you and all users of the Kent equipment with information concerning the duration, extent, availability and applicability of this Kent limited warranty, the procedure to be taken to obtain its performance and other information concerning the Kent warranty policy.

The Kent Limited Warranty is extended to the original end user as follows:

KW Series pressure washers 1 year parts replacement and service labor warranty. Normal wear parts including hoses, gaskets, pump seals and nozzles guaranteed against defects for a period of 90 days from date of sale. Honda engines are warranted by American Honda Co., Inc. for a period of 1 year.

Replacement parts guaranteed for 90 days from date of installation against defects in material and workmanship.

The 10 year poly component replacement warranty with 1 year service labor extends for a period of ten (10) years from the date of the original purchase of the Kent equipment by the original purchaser. This warranty will not cover damage attributable to the following:

(1) Improper, unreasonable or negligent use of abuse of the equipment.
(2) Use of equipment with hot water or high temperature above 130 degrees Fahrenheit (54 degrees Centigrade).
(3) "Warpage", "Creepage", or "Distortion: of part so long as the same does not interfere with normal operation.
(4) Abrasions or punctures of the equipment.

The start date of the warranty coverage shall be the purchase date of the original end user or 1 year from the date the machine was shipped from the factory, whichever come first. Proof of purchase will be required.

PARTS OF KENT EQUIPMENT NOT COVERED BY WARRANTY

Certain parts of Kent equipment require replacement in the ordinary course of use due to normal wear by reason of their characteristics. These are normal wear items such as cords, gaskets, switches, bumpers, carbon brushes, handle grips, bags, hoses, bearings, etc.

EXCEPTIONS AND EXCLUSIONS FROM WARRANTY

This equipment is required to be used on electric current as indicated on the data plate. Otherwise damage, defects, malfunctions or other failures of the equipment arising from use on electric current not as indicated are excepted and excluded from this warranty. Defects, malfunctions, failure or damage of the equipment caused by improper, unreasonable or negligent use or abuse other than those designated as authorized to perform such work without first having obtained factory instructions, The Kent Company, at its sole option, may determine that this warranty will not apply and that reimbursement for such repair will not be made because of the failure to comply with such factory specified instructions.

PROCEDURE TO BE TAKEN TO OBTAIN PERFORMANCE OF WARRANTY REPAIR

To secure repair of the equipment or any warranted parts under this warranty, the following procedure should be taken. The inoperative equipment or warranted parts, together with satisfactory evidence of the purchase date, must be delivered, with shipping and deliver charges prepaid, to one of the following:

(1) The dealer from whom purchased;
(2) Any Kent distributor's service department in the United States;
(3) Any Kent authorized service station in the United States.

If you are unable to locate any of the foregoing, you may write or otherwise communicate with The Kent Company for instructions before repair service is performed by anyone else. In such event, The Kent Company will provide either the location of a closely available Kent distributor service department or Kent authorized service station or other factory instructions. Upon compliance with the above procedure, all warranted defects will be repaired, at no additional charge or costs to the customer, and the repaired product returned to the customer, with all shipping and delivery charges prepaid. In following the procedures above set forth, PLEASE MAKE CERTAIN to state the Kent model, type and serial number as shown on the data plate of the equipment.

REPLACEMENT

In the event of a defect, malfunction or failure of your Kent equipment or any warranted part to conform with this warranty, The Kent Company may, at its sole option and own expense, replace the equipment or any warranted part with another new identical or reasonably equivalent model or part in lieu of repairing the defect.

NO REFUND OF PURCHASE PRICE

The Kent Company will not, as a matter of its warranty policy, refund the customer's purchase price.

WARRANTY REGISTRATION CARD FOR YOUR KENT EQUIPMENT AND INFORMATION REQUEST

Your Kent Company distributor from whom you purchased your equipment is responsible for the registration of your warranty with the factory. We ask that you cooperate with your distributor in supplying the necessary information on the warranty card so that we may better serve you. Any information or questions you may have concerning your Kent equipment or this warranty may likewise be secured from the factory. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

THE KENT COMPANY
P.O. BOX 1665 ELKHART, INDIANA 46515

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