



Electronic Service Manuals

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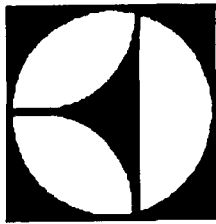
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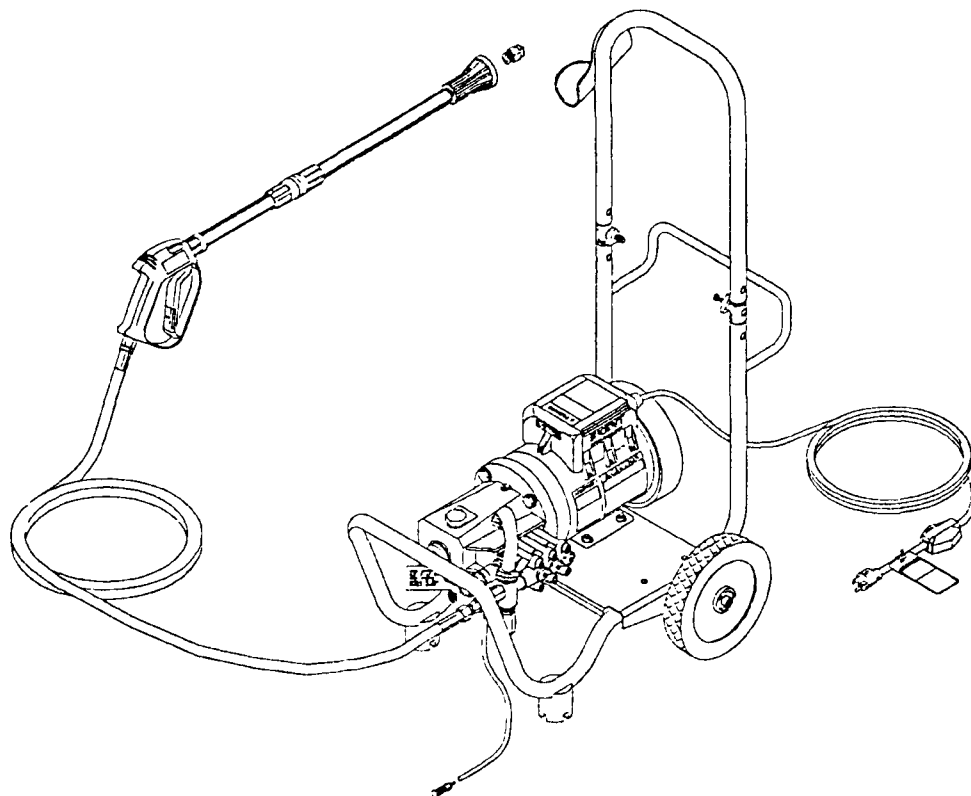
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Serving the Cleaning Industry Since 1922

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KENT



MODEL:
KW-1014W
PRESSURE
WASHER
120/1 PHASE

**OPERATING,
MAINTENANCE
INSTRUCTIONS
& ILLUSTRATED
PARTS LIST**

THE KENT COMPANY
P.O. Box 1665
2310 Industrial Parkway
Elkhart, IN 46515
TEL: (219) 293-8661
(800) 334-1083
FAX: (219) 295-8610
TELEX: 25-8331 KENT CO EKR

MARCH, 1995

This symbol on the nameplate means this product is Listed by Underwriters Laboratories Inc



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INTRODUCTION

Congratulations on the purchase of your new KENT pressure washer! You can be assured your KENT 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 operator's manual was compiled for your benefit. By reading and following the simple safety, installation, operation, maintenance and troubleshooting 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 attention to items or procedures that could be dangerous to you or other persons using this equipment.

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, immediately write in the serial number of your unit in the space provided below.

SERIAL NUMBER _____

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 KENT Customer Service at our toll-free number for the Sales or Service Center nearest you.

800-334-1083

Please have the following information available for all service calls.

- 1 Model Number
- 2 Serial Number
- 3 Date and Place of Purchase



IMPORTANT SAFETY INSTRUCTIONS



GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.



DANGER

Improper connection of the equipment-grounding conductor can result in a risk of electrocution. Check with a qualified electrician or service personnel if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use any type of adaptor with this product.



GROUND FAULT INTERRUPTER PROTECTION

This pressure washer is provided with a Ground Fault Circuit Interrupter (GFCI) built into the plug of the power supply cord. This device provides additional protection from the risk of electric shock. Should replacement of the cord become necessary, use only identical replacement parts that include GFCI protection.



EXTENSION CORDS

WARNING

KENT DOES NOT RECOMMEND THE USE OF EXTENSION CORDS!

If use of an extension cord is unavoidable, it must be plugged into a GFCI found in circuit boxes or protected receptacles. When using an extension cord, observe the following:

<u>Cable Length</u>	<u>Wire Gauge</u>
Up to 50 feet	14 AWG
50 to 100 feet	12 AWG

Use only 3-wire extension cords that have 3-prong grounding-type plugs and 3-pole cord connectors that accept the plug from the product. Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor appliances, store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cord before using and replace if damaged. Do not abuse extension cord and do not yank on any cord to disconnect. Keep cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.

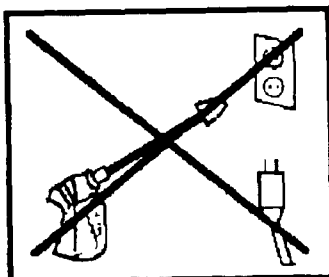
WARNING

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



ELECTRICAL PRECAUTIONS

- 1 DO NOT drop the GFCI as damage could result.
- 2 DO NOT pull on the electrical cord to disconnect from the outlet, OR carry the unit by the cord.
- 3 Check power cord for damage before using. There is a hazard of electrical shock from crushing, cutting or heat damage.
- 4 Before plugging the unit into a compatible power source, be certain the switch is in the "OFF" position. Disconnect when not in use.
- 5 DO NOT use the unit in an area where flammable gas vapors may be present. An electric spark could cause an explosion or fire.
- 6 DO NOT direct water 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.
- 7 KENT does not recommend that the owner attempt any electrical repairs to this unit.



! IMPORTANT SAFETY INSTRUCTIONS !

! SPRAY PRECAUTIONS:

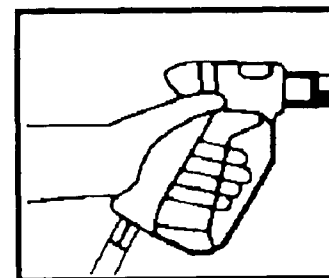
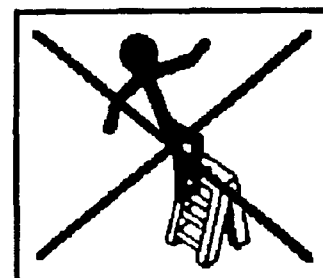
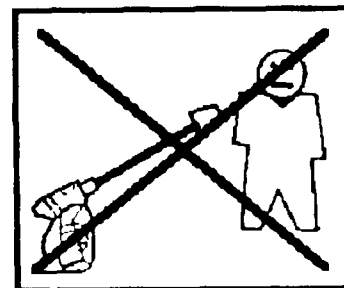
! WARNING !

RISK OF INJECTION OR SEVERE CUTTING INJURY

KEEP CLEAR OF NOZZLE

DO NOT DIRECT DISCHARGE STREAM AT PERSONS OR PETS WHEN USING THIS PRODUCT, BASIC PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

- 1 Read all instructions before using the product
- 2 KEEP AWAY FROM THE SPRAY
 - Because of the high pressure, temperature and velocity 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. Always 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
- 3 When using hot inlet water, do not touch or direct discharge stream at persons. Pump surface temperature is the same as inlet water temperature
- 4 ALWAYS wear protective goggles when operating the unit 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. Use **extreme** caution when operating near children
- 5 Stay alert-watch what you are doing. Do not operate the unit when fatigued or under the influence of alcohol or drugs
6. 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. Wet surfaces can be slippery, wear protective foot gear and keep good footing and balance at all times. NEVER trigger the gun while on a ladder or roof
- 7 DO NOT direct spray toward fragile materials such as glass. Shattering could result in serious injury
- 8 ALWAYS hold on firmly to the gun/wand assembly when starting and operating the unit. Failure to do so can cause the wand to 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
- 9 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 INSTRUCTIONS



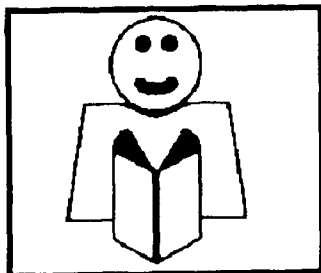
DETERGENT CLEANING PRECAUTIONS:

- 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 the Material Safety Data Sheet (MSDS) provided with your detergent and all detergent labels. 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.



MISCELLANEOUS SAFETY PRECAUTIONS:

1. **NEVER ALLOW CHILDREN OR ADOLESCENTS TO OPERATE THIS UNIT!**
2. Read and follow all handling, operations, maintenance and safety instructions listed in this manual and provide such information to ANYONE who will be operating this unit.
3. This pressure washer is provided with a Ground Fault Circuit Interrupter (GFCI) built into the plug of the power supply cord. Should replacement of the cord become necessary, use only identical replacement parts that include GFCI protection.
4. 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 the detergents into the water supply. (Direct connection is permitted if a back flow preventer is installed.)
5. Avoid dragging the hose over an abrasive surface such as cement. This causes wear and eventual rupturing.
6. 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.
7. DO NOT operate the unit if you see any 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.
8. To reduce the risk of injury, maintain a safe distance from persons while operating this unit. Close supervision is necessary when operating the unit near children.
9. DO NOT leave pressurized unit unattended. Shut off the unit and release trapped pressure before leaving.
10. DO NOT move the unit by pulling on the hose.



IMPORTANT SAFETY INSTRUCTIONS

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 power source.
- 3 Know how to stop the pressure washer and bleed pressures quickly. Be thoroughly familiar with controls.
- 4 Before servicing the unit, turn the unit off, relieve the water pressure, and allow the unit to cool down. Service in a clean, dry, flat area.
- 5 Follow the maintenance instructions specified in this manual.

 **! SAVE THESE INSTRUCTIONS !** 

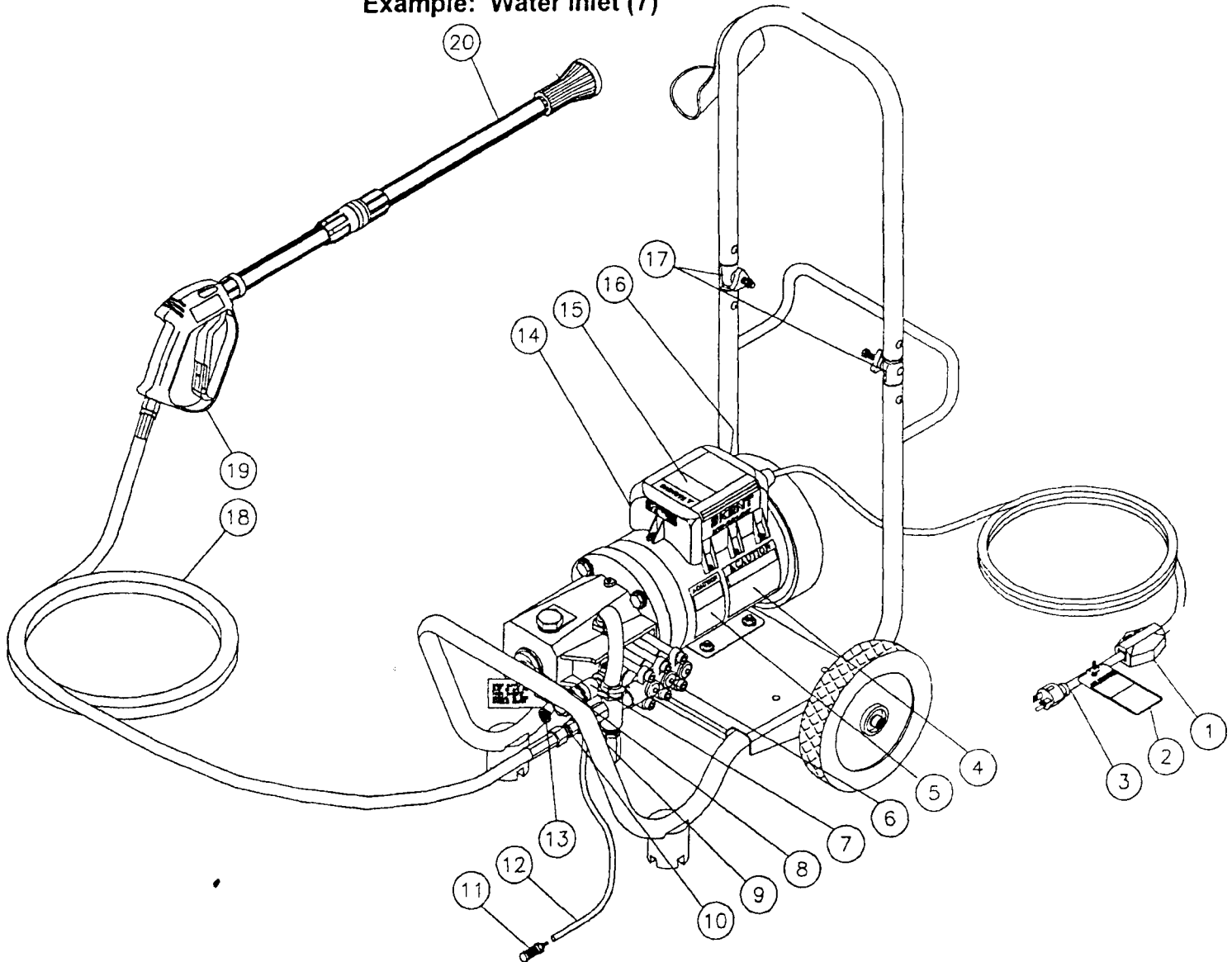
SPECIFICATIONS

Model Number	KW-1014W
Operating Voltage	120/1/60
Amperage	12.5
Operating Pressure	1000
Flow Rate (GPM/LPM)	2/8
Max. Water Inlet Temperature (F/C)	190°F/88°C
Power Cord Length	35 Feet w/GFCI
Pressure Hose Length	25 Feet
Motor Horsepower	1.5
Motor RPM	3450
Pump Style	Triplex Piston
Pump Oil Type	SAE 30 Non-Detergent
Lance Length (Inch/Cm)	36"/91cm
Nozzle Angle	15°
Unit Length (Inches)	32
Unit Width (Inches)	17
Unit Height (Inches)	38
Unit Weight (Pounds)	85
Unit Shipping Weight (Pounds)	95

KW-1014W FEATURES

NOTE: This drawing is referenced through-out the manual. Locations of specific items will be noted by listing the REFERENCE # in parenthesis.

Example: Water Inlet (7)



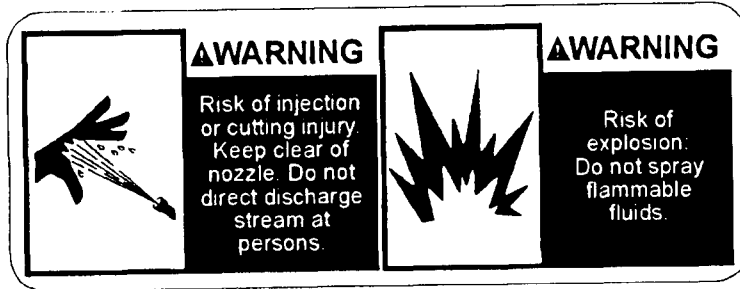
FEATURES LISTING

- | | |
|--|---|
| 1 GFCI | 12. Detergent Hose |
| 2 Hang Tag-Warning Risk of Electrocution | 13 Water Inlet Strainer |
| 3 Power Cord | 14. Decal-Warning Risk of Injection/
Risk of Explosion |
| 4. Decal-Caution Statements | 15 Decal-Warning Risk of Electrocution |
| 5 Decal-Caution Hot Water | 16 On/Off Switch |
| 6 Pump | 17 Adjustable Handle |
| 7 Water Inlet | 18 High Pressure Hose |
| 8 Oil Sight Glass | 19 Gun Assembly |
| 9 Detergent Injector | 20 Nozzle Assembly |
| 10 Water Outlet | |
| 11 Detergent Strainer | |

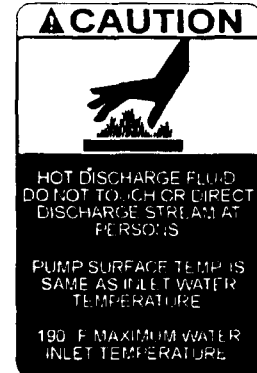
SAFETY DECALS & PLACEMENT FOR KW-1014W

REFER TO PAGE 8 FOR PLACEMENT

WARNING-RISK OF INJECTION RISK OF EXPLOSION Reference #14



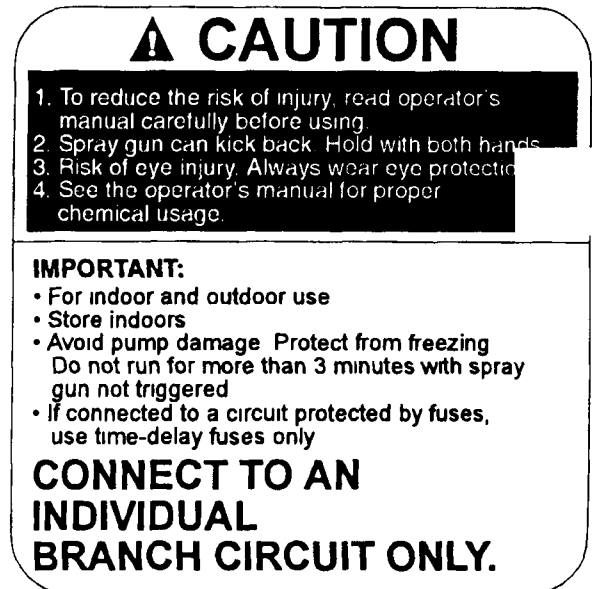
CAUTION-HOT WATER Reference #5



WARNING-RISK OF ELECTROCUTION Reference #2 & 15



CAUTION STATEMENTS Reference #4



INSTALLATION & PREPARATION

ATTIRE:

1 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 respiratory mask) may be required when using detergent cleaning agents with this washer.

SET-UP:

1. This unit should only be placed on a level surface to ensure proper lubrication for the water pump while operating. Do not allow the unit to be exposed to rain, snow or freezing temperatures. NEVER spray water directly on the unit!

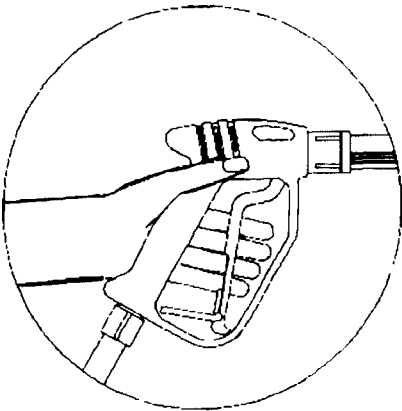
2. Pump oil level should be checked before each use to be certain the oil level is to the bead in the sight glass (8). If low, fill with SAE 30 non-detergent oil. DO NOT OVERFILL!



WARNING

RISK OF SEVERE INJURY!

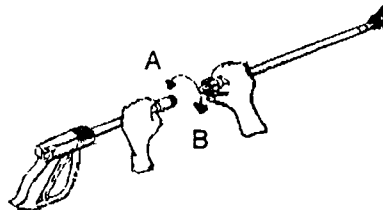
THE TRIGGER GUN SHOULD ALWAYS BE LOCKED IN THE OFF POSITION WHEN NOT IN USE!



TRIGGER GUN:

1. Be certain the trigger gun is locked in the "OFF" position. See *WARNING*, left.
2. The nozzle assembly should be disconnected from the gun assembly at this time by unscrewing the nozzle/lance assembly from the gun/lance assembly.

DIRECTION "A"=CONNECTION / "B"=DIS-CONNECTION



INSTALLATION & PREPARATION

ADJUSTABLE NOZZLE ASSEMBLY

(NOTE Nozzle assembly should NOT be connected to the gun assembly at this time)

1 Selection of high pressure can be achieved by turning the protective collar **clockwise** as shown in drawing 1, right. While in the high pressure mode, water is directed solely through the 15° spray nozzle creating a concentrated high pressure "fan" spray.

2. Selection of low pressure detergent application can be achieved by turning the collar **counter-clockwise** as shown in drawing 2, right. Once the pressure is low enough, the detergent injector on the pressure washer will draw detergent into the system. As the collar is turned, a water/detergent mixture exits not only from the spray nozzle, but also around the nozzle. This creates a "fan/cone" combination spray pattern



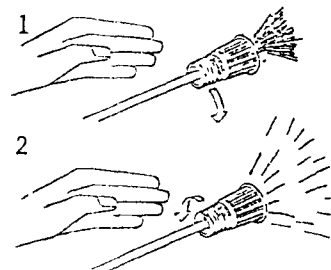
WARNING

RISK OF INJECTION CAUSING SEVERE INJURY!

NEVER LOOK DIRECTLY AT THE NOZZLE ORIFICE UNLESS IT IS DISCONNECTED FROM THE GUN/WAND ASSEMBLY!

WHEN USING THE ADJUSTABLE NOZZLE, NEVER ADJUST THE SPRAY PATTERN WHILE THE TRIGGER GUN IS OPEN!

ADJUSTABLE NOZZLE



WATER SUPPLY:

1 Select a water supply hose which is a quality grade of garden hose measuring at least 3/4" ID and no longer than 50 feet.

2 Check the water inlet strainer (13) to ensure it is clean and free of any obstructions. Periodic cleaning of the water strainer will help prevent pump problems. As a strainer becomes obstructed, it restricts proper flow of water to the pump. This can result in cavitations which will cause premature failure of pump packings. Using a screw driver, remove the screen, clean or replace with KENT #M19-0001 if necessary.

3. Connect one end of the water supply hose to the water inlet (7) of the unit. Connect the other end of the hose to your pressurized water supply. **NOTE** Do not use a non-pressurized water supply (i.e. from a pond) with this unit

4 Quick-connect the high pressure discharge hose (18) to the water outlet (10) of the unit

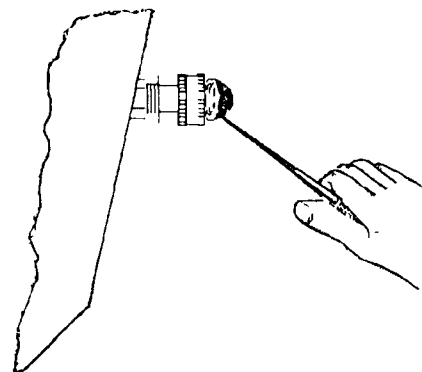
5 Be certain all connections are securely tightened

- Water supply hose to the Water Inlet on the unit
- Water supply hose to Pressurized Water Supply.
- High Pressure Discharge Hose to Water Outlet on the unit.

6 Follow the incoming water requirements listed below:

- Water pressure must be a minimum of 20 pounds per square inch (PSI) and a maximum of 125 PSI (A typical outdoor faucet will generally supply this PSI if turned completely "ON".)
- Incoming GPM must be approximately one gallon more than the outgoing GPM stated on the pressure washer nameplate (You can check GPM by timing how long it takes to fill a 5 gallon container)
- Incoming water temperature must not exceed 190°F Excessive pump damage may result if the water temperature exceeds this acceptable level

CHECK WATER INLET STRAINER



INSTALLATION & PREPARATION



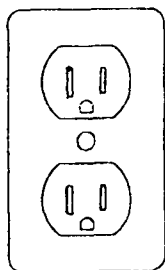
WARNING

RISK OF ELECTROCUTION!

This unit must be connected to a properly grounded outlet. **DO NOT** use an adapter **OR** remove the third grounding prong.

POWER CORD CONNECTION:

- 1 Make certain the motor switch is in the "OFF" position
- 2 Ensure electrical supply is 120Volt / 15 Amp / 60 Hertz (See drawing, left)
- 3 Insert the male plug into a grounded AC outlet



PRE-START INSPECTION PROCEDURES:

- 1 Before starting the unit, perform the following procedures
 - a Check the oil level in the pump
 - b Inspect the inlet water strainer Clean or replace if necessary
See "Water Supply", #2, pg. 11
 - c Check all hose connections to ensure they are securely tightened
See "Water Supply", #5, pg. 11
 - d Inspect for system water leaks and oil leaks
Be sure that all damaged parts are replaced and that the mechanical problems are corrected prior to operation of the unit
If service is needed, contact a KENT Authorized Service Center.
 - e. Inspect high pressure hose for kinking, cuts or leaks
If a cut or leak is found, **DO NOT USE HOSE!**
Replace hose before starting unit
See "Miscellaneous Safety Precautions" #6, pg. 6
Be sure that all damaged parts are replaced and that the mechanical problems are corrected prior to operation of the unit
If you need service, contact a KENT Authorized Service Center.
 - f Inspect electrical cord for kinking or cuts
If a cut is found, **DO NOT USE ELECTRICAL CORD!** Replace cord before starting the unit

WARNING

RISK OF INJURY

**THE FOLLOWING PAGES CONTAIN
OPERATING AND MAINTENANCE
INSTRUCTIONS**

**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

PRIMING THE PUMP:

- 1 It is essential to prime the pump on initial start-up and each time the water supply is disconnected from the unit after initial use
- 2 Lay the high pressure hose out to release any kinks. Water flow will constrict the hose, creating tight loops if the hose is not straight
- 3 Securely connect the gun assembly to the high pressure hose (NOTE: The nozzle assembly should NOT be connected to the gun assembly at this time. See "Trigger Gun", pg. 10)
- 4 With the trigger gun locked in the "OFF" position, turn the water supply completely on. Pointing the gun in a safe direction, unlock the trigger gun and squeeze the trigger
- 5 Low pressure 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
- 6 Once the unit is primed, release the trigger and lock the gun in the "OFF" position. Securely connect the nozzle assembly (See "Trigger Gun", pg. 10)

START-UP:

- 1 Refer to the "Safety Precautions" pgs. 4-7 before starting the unit
- 2 Locate the Safety Decals on your unit and heed their warnings (2, 4, 5, 14, and 15)
- 3 With the gun locked in the "OFF" position, point the trigger gun away from yourself or anyone else. Ensure water supply is turned completely on
- 4 Disengage the safety lock-off on the gun and squeeze the trigger. Low pressure water will begin flowing from the nozzle. Before starting the unit, brace yourself as the gun will kick-back from the high pressure created by the pump once the unit has started
- 5 Move the On/Off Switch to the "ON" position. This switch includes a circuit breaker for protection of the motor. In case of excess load, the circuit breaker will automatically move the switch to the "OFF" position. To restart, move the On/Off Switch again
- 6 Once the unit is turned on, perform the following procedures:
 - a Inspect for system water leaks and oil leaks
If an oil leak is found, TURN UNIT OFF 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 KENT Customer Service
 - b Inspect high pressure hose for kinking, cuts and leaks
If a cut or leak is found, DO NOT TOUCH HOSE AT CUT OR LEAK!!! TURN UNIT OFF IMMEDIATELY!
Replace hose before re-starting the unit. See "Miscellaneous Safety Precautions #6, pg. 6. 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 KENT Service
 - c Inspect electrical cord for kinking or cuts
If a cut is found, DO NOT TOUCH ELECTRICAL CORD AT CUT!!! TURN UNIT OFF IMMEDIATELY!
- 7 Trigger the gun several times. **Be certain** to LOCK the trigger gun in the "OFF" position whenever moving the adjustable nozzle. NEVER look directly into the nozzle! High pressure water creates a risk of severe injury!
- 8 Because your pressure washer delivers a high pressure spray, there are many cleaning jobs that can be done without the use of detergents. If a cleaning agent is required, see "Cleaning With Detergents" pg. 15 for the correct procedures



WARNING

RISK OF INJECTION CAUSING SEVERE INJURY!

**KEEP CLEAR OF NOZZLE!
NEVER PLACE HAND OR FINGERS IN FRONT OF NOZZLE!**

DO NOT DIRECT DISCHARGE STREAM AT PEOPLE OR PETS!

BE CERTAIN THE ADJUSTABLE NOZZLE ASSY. IS SECURELY CONNECTED TO THE WAND TO PREVENT AN ACCIDENTAL DISCHARGE!



CAUTION

RISK OF DAMAGE.

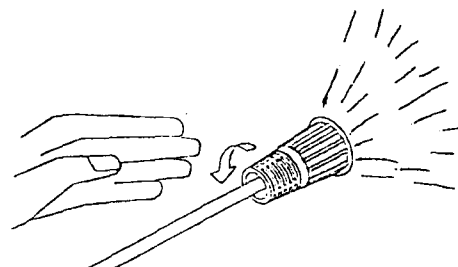
DO NOT ALLOW SPRAY PATTERN TO REMAIN ON A FIXED AREA FOR AN EXTENDED PERIOD OF TIME. POSSIBLE DAMAGE MAY OCCUR TO THE AREA.

OPERATING INSTRUCTIONS

CLEANING WITH DETERGENTS:

1. Refer to "Detergent Cleaning Precautions" pg. 6 before working with detergents. Be certain to wear protective safety attire as stated on pg. 10.
2. Prepare detergent solution according to label directions.
3. Connect the detergent hose (12) to the unit as shown on page 8.
4. Immerse the strainer into the detergent solution to allow detergent to siphon.
5. Be certain the water supply is completely turned "ON".
6. With the trigger gun locked in the "OFF" position, turn the collar at the end of the wand **counter-clockwise**.
7. To apply solution, unlock the trigger gun and squeeze the trigger. In a few moments a detergent/water mixture will exit the low pressure nozzle. Start spraying the lower portion of the surface being cleaned and move up, using long overlapping strokes. Applying from the bottom up helps avoid streaking. Allow to soak briefly. Avoid working on hot surfaces or in direct sunlight to minimize the chances of the detergent drying, which may result in damaging surfaces. Be certain to rinse a small section at a time.
8. To rinse; lock the trigger gun in the "OFF" position, turn the collar at the end of the wand **clockwise**. Unlock the trigger gun and spray. It will take about 30 seconds to purge all detergent from the line. For best rinsing results, start at the bottom and work up. You must then also rinse from top to bottom.
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.

ADJUSTABLE NOZZLE DETERGENT

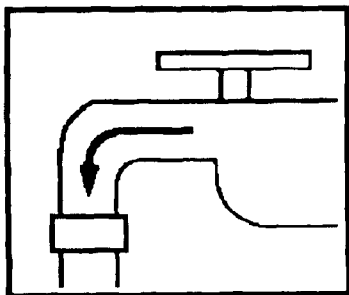


SHUT-DOWN:

1. Move the On/Off switch to the "OFF" position to turn unit off.
2. Turn the water supply "OFF".
3. Pointing the gun in a safe direction, trigger gun momentarily to relieve any trapped pressure. Once pressure is relieved, disconnect the nozzle assembly.
4. Disconnect the unit from the power source.
5. Disconnect and drain gun, wand and hoses.
6. Wipe unit clean and store with gun, wand and hoses in a safe area.

STORAGE & MAINTENANCE

GENERAL MAINTENANCE:

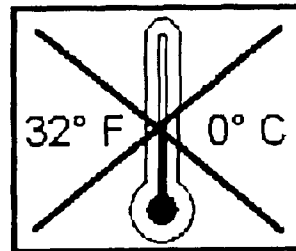


- 1 ALWAYS be certain the unit is receiving proper voltage DO NOT allow electrical cords or connections to lay in water or in such a position where water could come in contact with them
- 2 There is a water screen at the water intake on the unit It should be inspected, removed and cleaned before each use
- 3 Never allow the unit to operate without incoming water line attached and the water supply turned all the way on Incoming water pressure should NOT exceed 125 PSI and incoming water temperature should not exceed 190°F,
- 4 Never spray water directly on the unit or store the unit outdoors where it can be exposed to rain or other adverse weather conditions
- 5 Do not store the unit in a freezing environment This can cause "lock-up" conditions in the water pump Never pour hot water on a frozen pump, let pump thaw in a warm place If storage in freezing conditions is necessary, follow the winterizing procedures outlined on page 17
- 6 Never pump acids, alkaline, abrasive fluids or solvents through the unit
- 7 Do not make repairs while the unit is running
- 8 Always follow the "SHUT-DOWN" procedures outlined in this manual
- 9 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

STORAGE & MAINTENANCE

WINTERIZING:

1. Always store your unit in an area where the temperature will not fall below 32°F (0°C). The pump in this unit may be permanently damaged if frozen. **FREEZE DAMAGE IS NOT COVERED BY WARRANTY.** If you must store your unit in an area where the temperature may fall below 32°F, you can protect your unit from the chance of damage by following the procedure outlined below.



1. Gather the following items.
 - a. Blow-down kit KENT #M852-0066
 - b. Air line with air chuck (Portable air tanks are available at most rental yards.)
2. Procedure:
 - a. Ensure the water supply hose is disconnected from the water inlet (7) of the unit, and the nozzle assembly (20) is disconnected from the gun assembly (19).
 - b. Assemble the blowdown valve and connect it to the water inlet of the unit.
 - c. Point the trigger gun in a safe direction and squeeze the trigger. While trigger is open, attach the air line to the blowdown valve to blow water from the system.
 - d. Continue blowing for approximately three minutes.
 - e. Detach the air line and release the trigger gun.
 - f. Remove the blowdown valve from the unit inlet.
 - g. Store the hose, gun and wand with the unit in a safe area.

STARTING UNIT AFTER EXTENDED STORAGE:

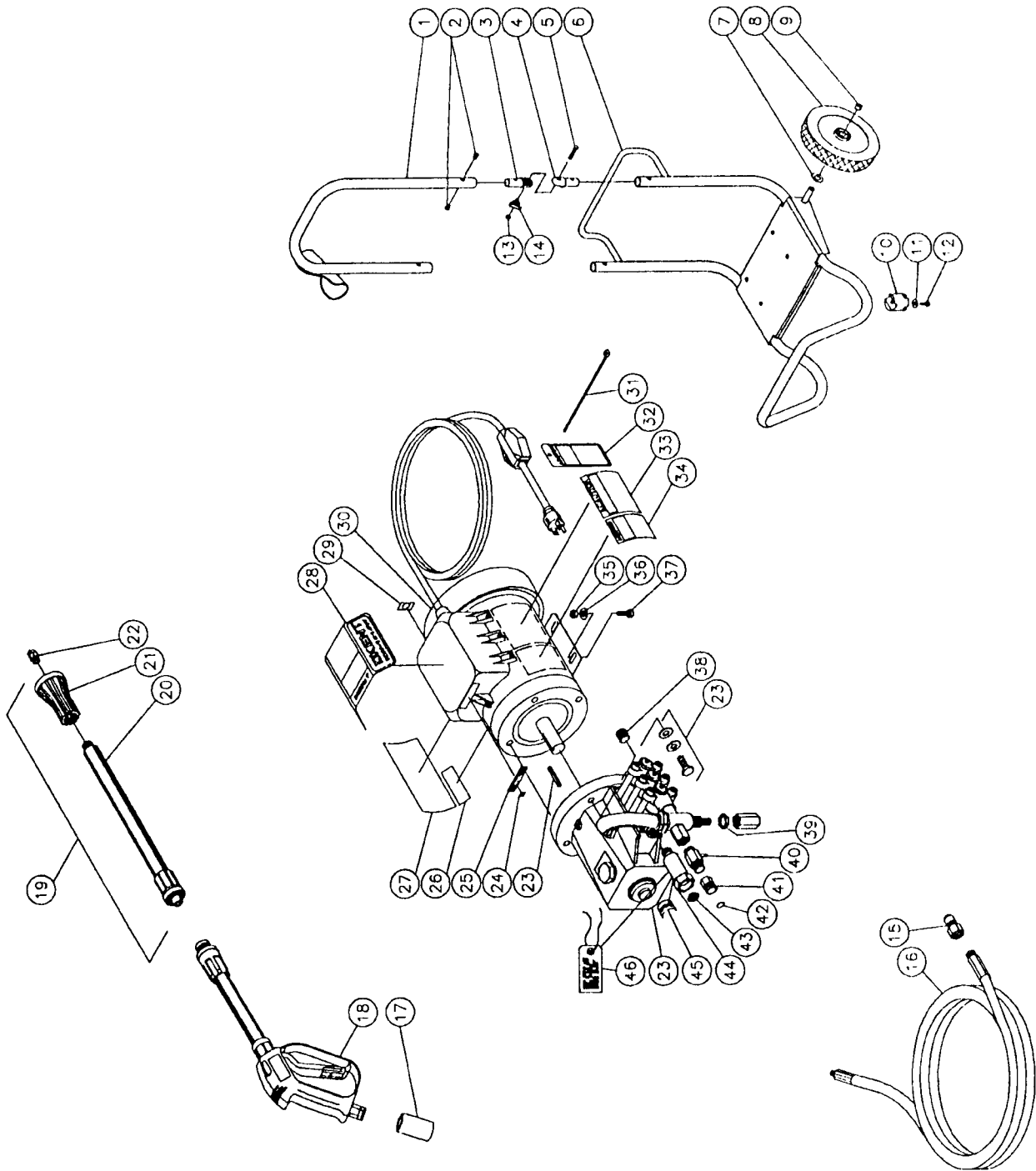
1. BE CERTAIN the unit is NOT plugged into the power source.
2. Prior to restarting the unit, thaw out any possible ice from the wand, gun and hose.
3. After following all "PREPARATION" instructions, start the unit momentarily and immediately turn "OFF" to ensure all parts are lubricated before operation.

TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	REMEDY
Pump motor will not start, or stops while operating	GFCI tripped.	Turn unit "OFF" Press GFCI reset button
	Tripped circuit breaker or fuse blown in circuit fuse box	Disconnect all other plugs on the circuit being used and reset circuit breaker OR check and replace fuse
	Loose or disconnected plug	Reconnect plug
	Tripped circuit breaker in unit	Allow to cool and restart unit
Circuit breaker trips or fuse blows in the fuse box.	Pump pistons stuck.	See "Extended Storage" pg 17
	Circuit overload.	Check that the circuit is rated at 15 Amp. Disconnect all plugs on the circuit When connecting to a circuit protected by fuses, use time delay fuses only
	Extension cord is too long or wire is too small	Use correct electrical requirements as listed on pg 4
GFCI trips.	Incorrect voltage	Ensure electrical supply is 120 V/15 A/60 Hz
	Electrical short to ground.	Contact KENT Service Center
Motor runs but there is no discharge at nozzle when trigger mechanism is squeezed.	Inadequate water supply	Ensure hose is 3/4" diameter and incoming water supply is turned on
	Kink in water inlet hose or in high pressure discharge hose	Replace kinked pressure hose
Low or fluctuating pressure	Water inlet screen obstructed	Remove screen, clean or replace
	Pump sucking air (Prime lost)	Tighten all water intake connections Eliminate leaks in intake line
	Not in high pressure mode	Turn the collar clockwise to engage in the high pressure mode
	Obstructed or worn orifice.	Remove and clean, OR Replace
	Bypass valve not operating correctly.	Contact KENT Service Center
Water or Oil leaking from unit.	DO NOT USE!!!!	Contact KENT Service Center
Water flows from the nozzle when the trigger gun is in the "OFF" position.	Gun is malfunctioning	DO NOT USE!!!! Contact KENT Service Center
Detergent will not siphon into Low Pressure Detergent mode	Detergent strainer is not completely submerged in detergent solution	Check; submerge if necessary
	Detergent hose is obstructed or cut	Inspect, clean or replace
	Not in Low Pressure mode.	Turn the collar counter-clockwise
	Nozzle assembly is plugged.	Clean or replace
	Too many high pressure hose extensions attached to the water outlet	Use one extension maximum
Water flows back into detergent container.	Ball & Spring in Venturi stuck.	Run warm water thru injection line.
	Ball & Spring in Venturi reversed, missing or corroded.	Remove, clean OR Replace

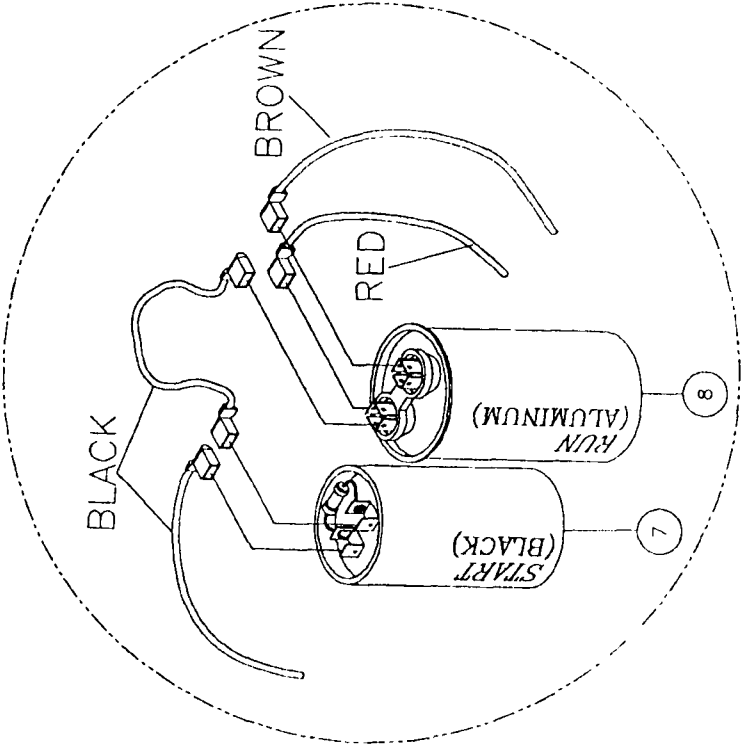
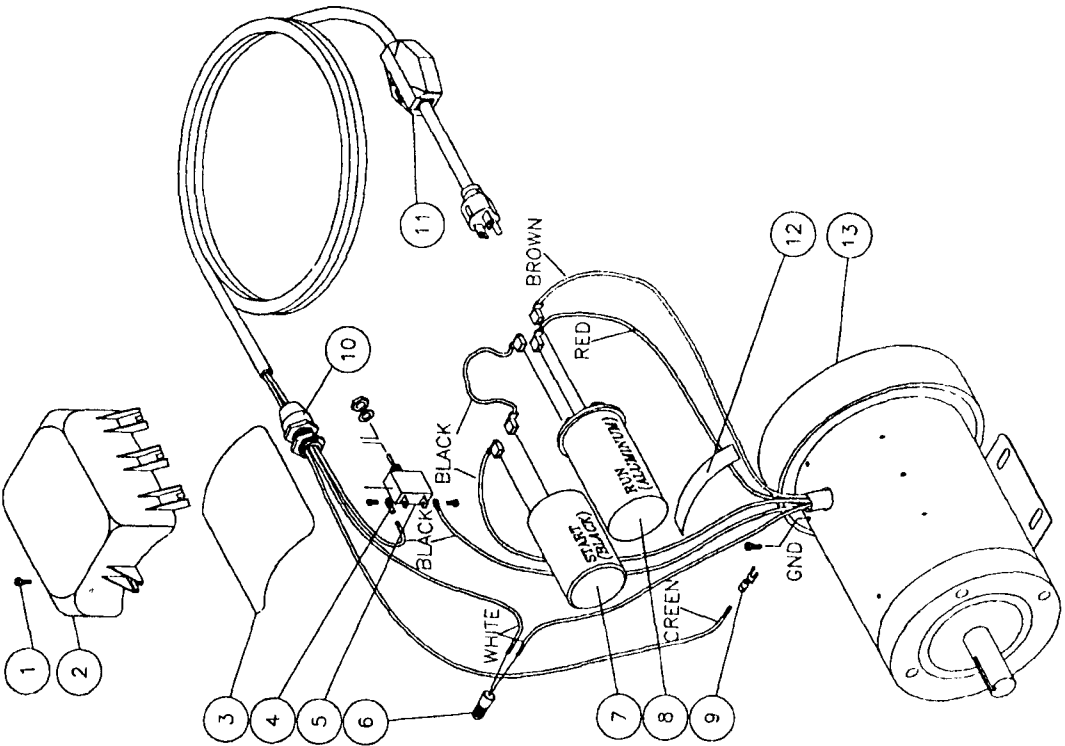
NOTES

FRAME ASSEMBLY FOR KW-1014W



FRAME ASSEMBLY FOR KW-1014W						
Ref #	Description	Part #	Qty.	Ref #	Description	Part # Qty
1	Handle	M7-0131	1	26	KENT Serial # Canada	N/A 1
2	Drive Stud	M43-0084	8	27	Decal-Warning Risk of Injection/Explosion USA	M34-0614 1
3	Upper Joint (Adjustable)	M33-0242	2		Decal-Warning Risk of Injection/Explosion Canada	M34-0631 1
4	Lower Joint (Adjustable)	M33-0241	2	28	Decal-Warning Statements USA	M34-0644 1
5	Bolt	M27-0020	2		Decal-Warning Statements Canada	M34-0646 1
6	Frame	M5-0115	1	29	Decal-On/Off	M34-0612 1
7	Washer	M28-0006	2	30	Motor Assembly USA	M851-0247 1
8	Wheel	M14-0052	2		Motor Assembly Canada	M851-0250 1
9	Hub Cap	M33-0055	2	31	Cable Tie	M33-0022 1
10	Isolator	M14-0063	2	32	U/L Hang Tag USA	M34-0605 1
11	Washer	M28-0021	2		U/L Hang Tag Canada	M34-0628 1
12	Screw	M27-3096	2	33	Decal-Cauton/Important USA	M34-0617 1
13	Locknut	M30-0155	2		Decal-Cauton/Important Canada	M34-0632 1
14	Knob	M7-0115	2	34	Decal-Warning Hot Water USA	M34-0666 1
15	Quick Connect Plug	M17-0006	1		Decal-Warning Hot Water Canada	M34-0667
16	High Pressure Hose	M15-0138	1	35	Locknut	M30-0157 4
17	Covering-Foam (3 5")	M7-0046	1	36	Washer	M28-0003 4
18	Gun w/Screw Lance	M16-0167	1	37	Bolt	M27-0066 4
19	Nozzle Assembly	M851-0267	1	38	Plug	M23-0244 1
20	Lance	M16-0310	1	39	Locknut	M46-0651 1
21	Cone-High/Low Adjusting Nozzle	M16-0305	1	40	Detergent Injector	M50-0126 1
22	Spray Nozzle-1504	M18-0054	1	41	Quick Connect Socket	M17-0004 1
23	Pump	M3-0137	1	42	O-ring	M25-0123 2
24	Decal-Date Code	N/A	1	43	Inlet Filter	M19-0001 1
25	Decal-Specifications USA	M34-0610	1	44	Garden Hose Swivel	M23-0269 1
	Decal-Specifications Canada	M34-0636	1	45	Decal-Heat Tape	M33-0236 1
26	KENT Serial # USA	N/A	1	46	Tag-Water Supply Inlet	M34-0097 1

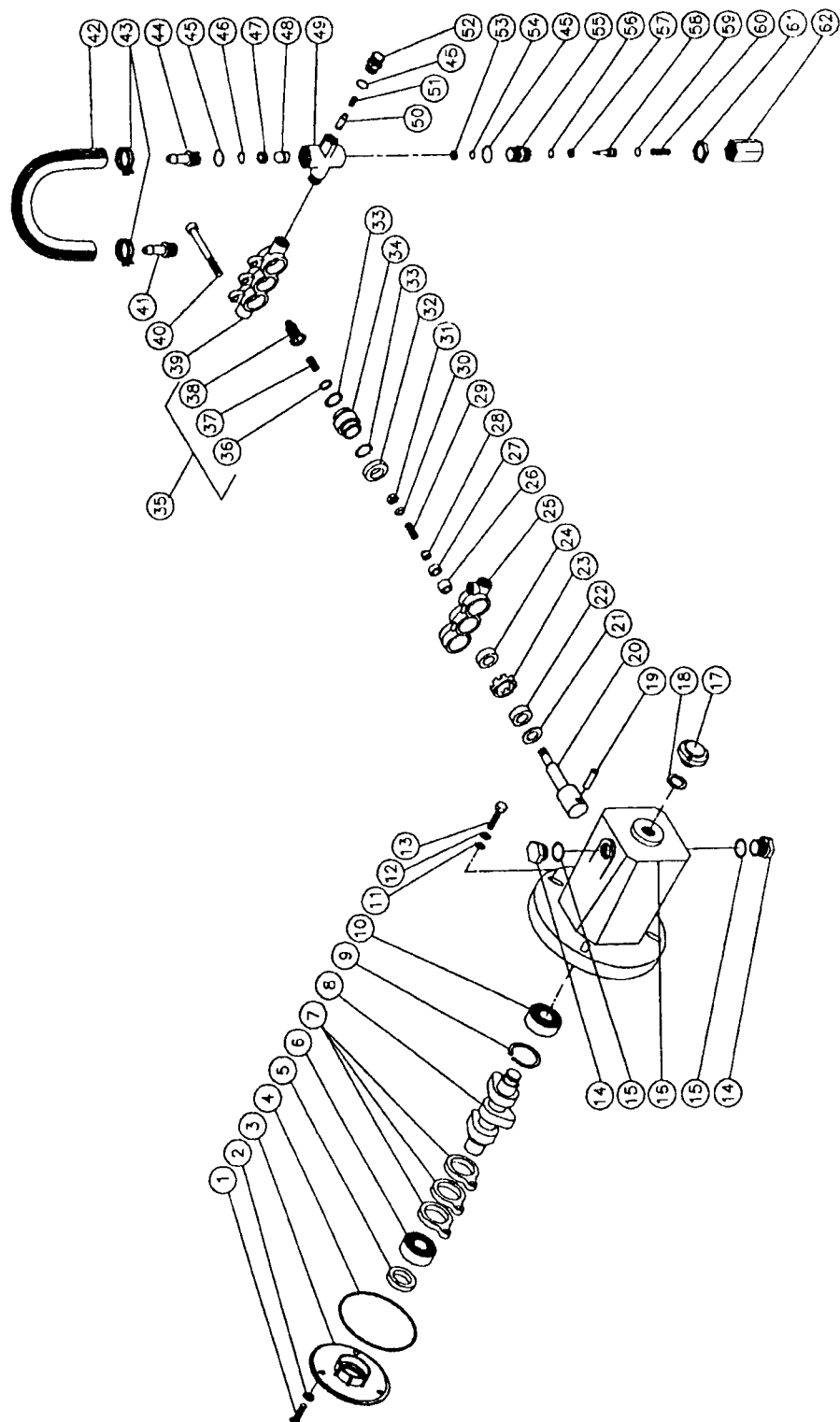
MOTOR ASSEMBLY (M851-0247 & M851-0250) FOR KW-1014W



CAPACITOR TERMINAL ASSEMBLY

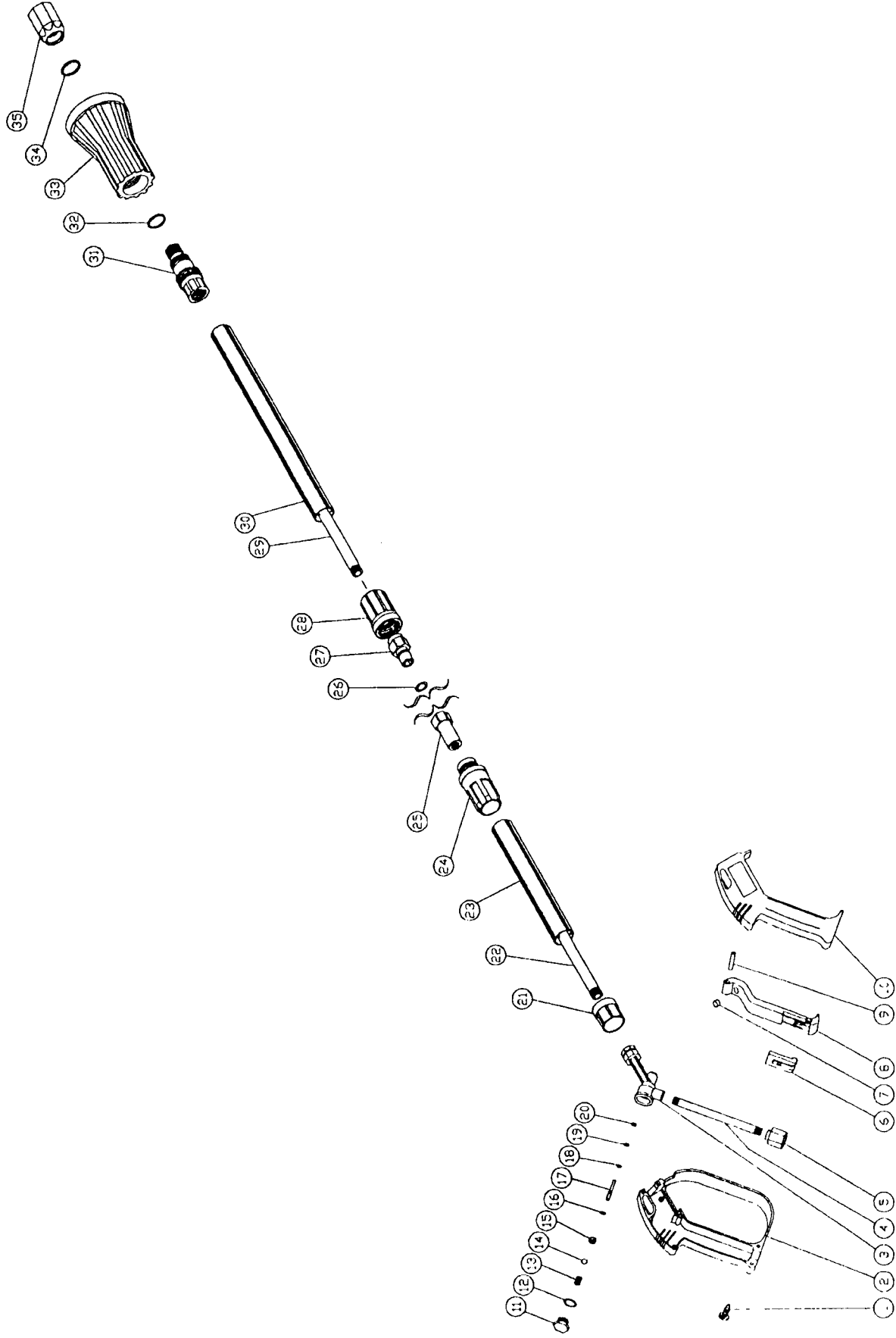
MOTOR ASSEMBLY (M851-0247 - M851-0250)				
REF. #	DESCRIPTION	PART #	QTY.	
1	Screw-hex	N/A	8	
2	Motor Box	N/A	1	
3	O-ring	N/A	1	
4	Terminal	N/A	1	
5	Switch for 851-0247 & 851-0250	M32-0408	1	
6	Crimp Splice	N/A	1	
7	Starting Capacitor for 851-0247 & 851-0250	M32-0411	1	
8	Running Capacitor	M32-0413	1	
9	Terminal	N/A	1	
10	Strain Relief for 851-0247	M32-0407	1	
	Strain Relief for 851-0250	M32-0358	1	
11	GFCI Cord for 851-0247	M32-0268	1	
	GFCI Cord for 851-0250	M32-0409		
12	Strap for Motor Box	N/A	1	
13	Motor	N/A	1	

PUMP ASSEMBLY (M3-0137) FOR KW-1014W



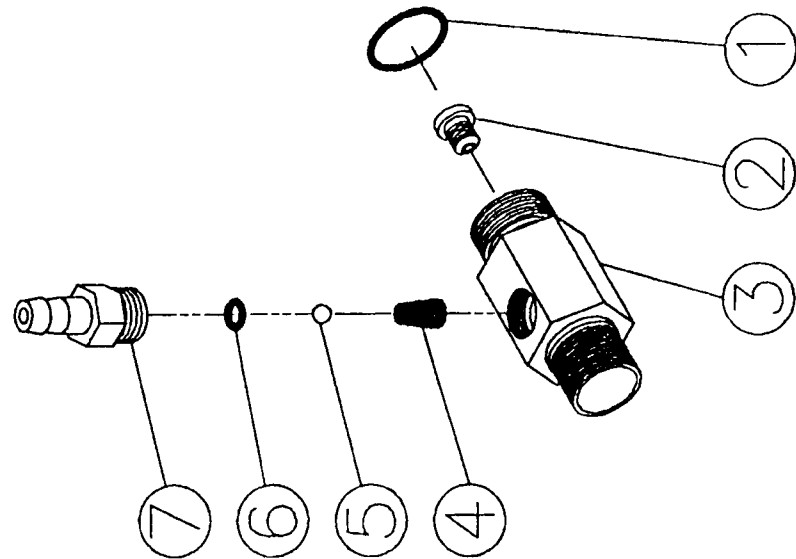
PUMP ASSEMBLY (M3-0137) FOR KW-1014W											
REF #	DESCRIPTION	PART #	QTY	REF #	DESCRIPTION	PART #	QTY	REF #	DESCRIPTION	PART #	QTY
1	Bolt	M46-0318	3	24	Low Pressure Seal (See M70-0139)	N/A Sep	3	47	Valve Seat	M46-0319	1
2	Flatwasher	M26-0159	3	25	Manifold Inlet	M46-0304	1	48	Valve & Ball Assembly	M46-0320	1
3	Cover-Rear	M46-0297	1	26	Plunger	M46-0305	3	49	Unloader Body	N/A	1
4	O-ring	M25-0308	1	27	Valve Inlet	M46-0306	3	50	Flow Balancer	M46-0326	1
5	Oil Seal	M26-0155	3	28	Spacer	M46-0307	3	51	Spring	M46-0531	1
6	Bearing-Inner	M48-0027	1	29	Spring	M49-0064	3	52	Discharge Fitting	M46-0327	1
7	Connecting Rod	M46-0298	3	30	Washer	M46-0316	3	53	Back-up Ring (See M70-0131)	N/A Sep	1
8	Crankshaft	M46-0653	1	31	Nut	M46-0317	3	54	O-ring (See M70-0131)	N/A Sep	1
9	Snap Ring	M46-0300	1	32	Seal-High Pressure (See M70-0139)	N/A Sep	3	55	Piston Retainer	M46-0321	1
10	Bearing-Outer	M48-0028	1	33	O-ring (See M70-0139)	N/A Sep	6	56	O-ring (See M70-0131)	N/A Sep	1
11	Flatwasher (See M70-0096)	N/A Sep	4	34	Discharge Valve Seat	M46-0309	3	57	Back-up Ring (See M70-0131)	N/A Sep	1
12	Lockwasher (See M70-0096)	N/A Sep	4	35	Valve Assembly (36-38) (See M70-0130)	N/A Sep	3	58	Piston Stem	M46-0324	1
13	Bolt (See M70-0096)	N/A Sep	4	36	Discharge Valve (See M70-0130)	N/A Sep	3	59	Spring Retainer	M46-0323	1
14	Plug	M39-0057	2	37	Valve Spring (See M70-0130)	N/A Sep	3	60	Unloader Spring	M49-0114	1
15	O-ring	M25-0199	2	38	Valve Spring Retainer (See M70-0130)	N/A Sep	3	61	Locknut	M46-0651	1
16	Crankcase	M46-0301	1	39	Manifold Outlet	M46-0311	1	62	Hex Adjusting Cap	M46-0640	1
17	Oil Level Gauge	M22-0123	1	40	Bolt	M46-0315	6		Bolt Mount Kit (4 each 11-13)	M70-0096	
18	Gasket	M26-0139	1	41	Hose Barb	M23-0265	1		Seal Kit (3 each 24 32 33)	M70-0139	
19	Piston Rod Pin	M43-0063	3	42	By pass Hose	M46-0645	1		Valve Kit (3 each 33, 34 36-38)	M70-0130	
20	Piston Rod	M46-0302	3	43	Hose Clamp	M46-0532	1		Unloader O-ring Kit (45 53 54, 56 57)	M70-0131	
21	Washer	M46-0314	3	44	Hose Barb	M46-0643	1		Unloader Assembly (44-60 62)	M8-0295	
22	Oil Seal	M26-0156	3	45	O-ring	M25-0201	3				
23	Seal Retainer	M46-0303	3	46	O-ring	M25-0202	1				

GUN (M16-0167) AND LANCE (M16-0310 & M16-0305) ASSEMBLY FOR KW-1014W



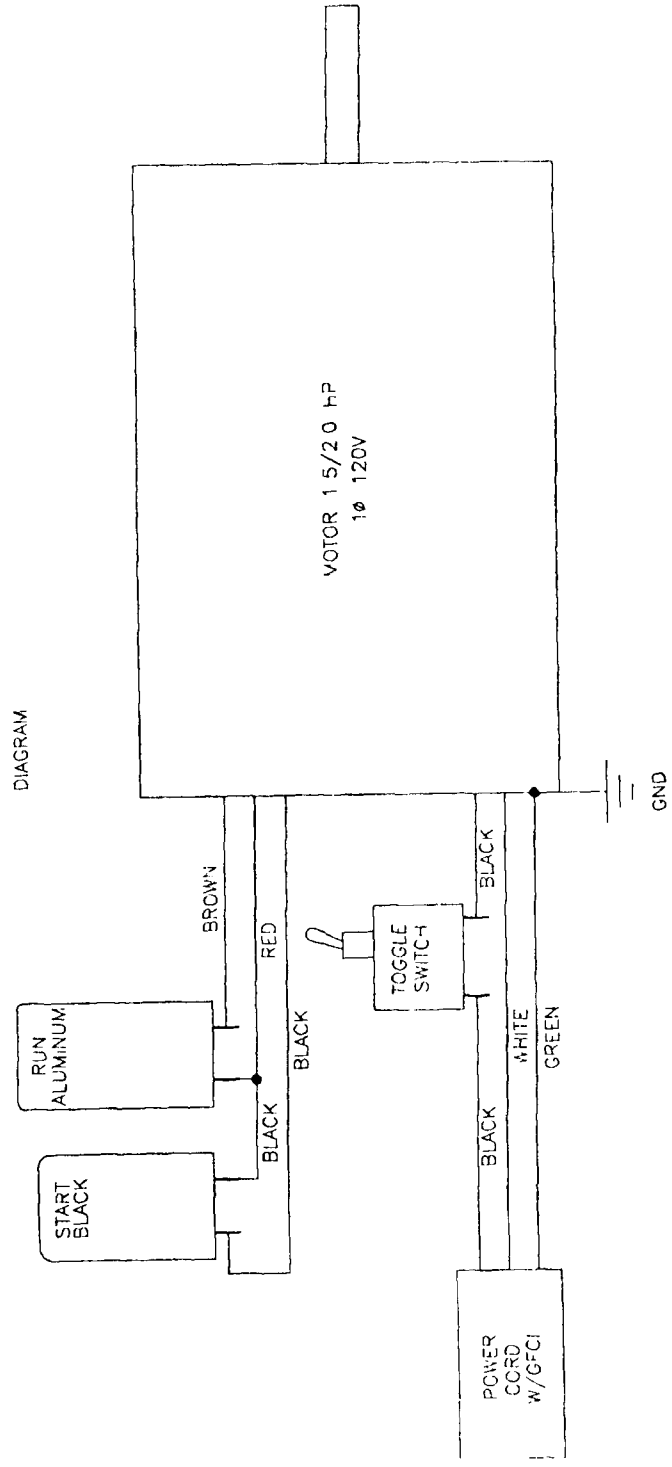
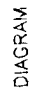
GUN (M16-0167) & WAND (M16-0310 & M16-0305) ASSEMBLY FOR KW-1014W							
REF #	DESCRIPTION	PART #	QTY	REF #	DESCRIPTION	PART #	QTY
1	Screw	M27-8382	7	21	Gun/Wand Connector	M16-0182	1
2	Plastic Housing (Left side)	M16-0189	1	22	Pipe	M21-0089	1
3	Housing-Brass	M23-0183	1	23	Wand Protector	M62-0063	1
4	Pipe	M21-0095	1	24	Plastic Screw Connector-Male	M16-0181	1
5	Coupler	M23-0174	1	25	Quick Connect-Female	M17-0031	1
6	Trigger Safety Lock	M16-0188	1	26	O-ring	M25-0259	1
7	Trigger Rest	M16-0186	1	27	Quick Connect-Male	M17-0032	1
8	Trigger	M16-0187	1	28	Plastic Screw Connector-Female	M16-0183	1
9	Trigger Pin	M43-0069	1	29	Pipe	M16-0322	1
10	Plastic Housing with Warning (Right Side)	M16-0185	1	30	Wand Protector	M16-0323	1
11	Plug (See Kit M70-0057)	N/A Sep	1	31	Body	N/A	1
12	O-ring (See Kit M70-0057)	N/A Sep	1	32	O-ring	M25-0354	1
13	Spring (See Kit M70-0057)	N/A Sep	1	33	Nozzle Cover	N/A	1
14	Ball (See Kit M70-0057)	N/A Sep	1	34	O-ring	M25-0355	1
15	Seat (See Kit M70-0057)	N/A Sep	1	35	Nozzle Holder	N/A	1
16	O-ring (See Kit M70-0057)	N/A Sep	1		Gun w/Screw Lance (Includes items 1-25)	M16-0167	
17	Pin (See Kit M70-0057)	N/A Sep	1		Gun Repair Kit (Includes items 11-20)	M70-0057	
18	Washer (See Kit M70-0057)	N/A Sep	1		Lance Assembly Complete (Inc 26-30)	M16-0310	
19	O-ring (See Kit M70-0057)	N/A Sep	1		High/Low Adj Nozzle (Includes 31-35)	M16-0305	
20	Back-up Ring (See Kit M70-0057)	N/A Sep	1		Lance/Nozzle Assembly (Includes 26-35)	M851-0267	
Must order M16-0167, M16-0310 & M16-0305 for complete Gun & Wand Assembly							

DETERGENT INJECTOR (M50-0126) FOR KW-1014W



DETERGENT INJECTOR (M50-0126)			
REF. #	DESCRIPTION	PART #	QTY.
1	O-ring	M25-0201	1
2	Orifice	M50-0132	1
3	Injector Body	N/A	1
4	Valve Spring (See M852-0121)	N/A Sep	1
5	Ball-Stainless Steel (See M852-0121)	N/A Sep	1
6	O-ring (See M852-0121)	N/A Sep	1
7	Injector Barb	M50-0130	1
	Injector Repair Kit (Includes 4-6)	M852-0121	

SCHEMATIC



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 or abuse of the equipment.
- (2) Use of equipment with hot water or high temperature above 190 degrees Fahrenheit (88 degrees Centigrade)
- (3) "Warping", "Creeping", 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 comes 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 delivery 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