



Electronic Service Manuals

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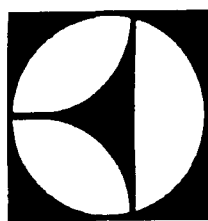
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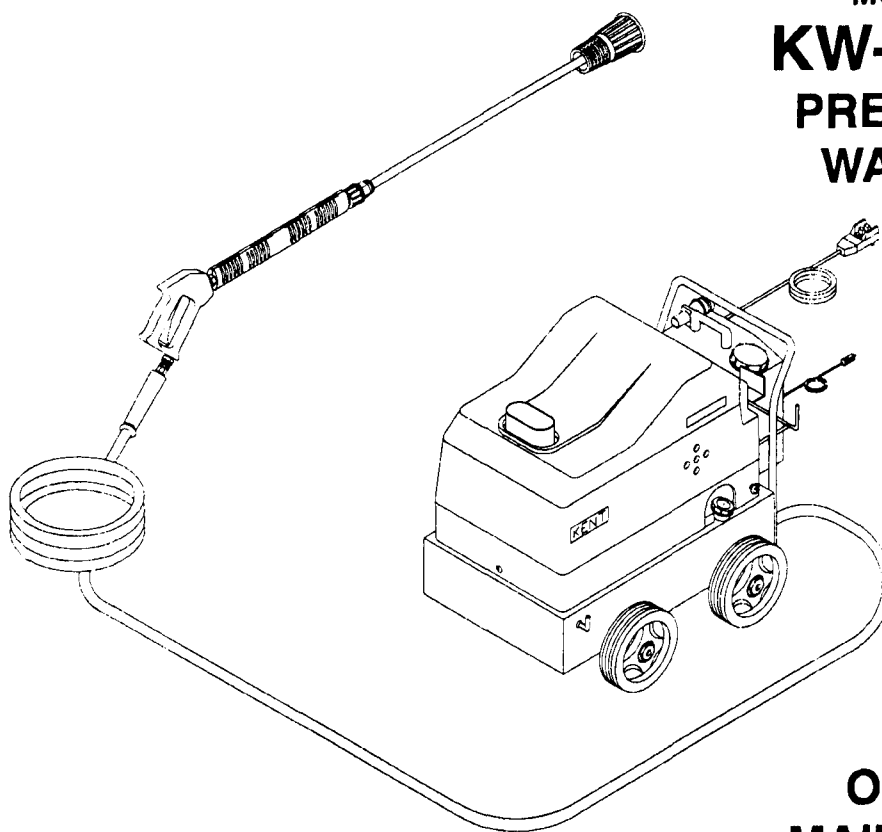
Serving the Cleaning Industry Since 1922

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KENT

MODELS:
KW-1015H
PRESSURE
WASHER



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

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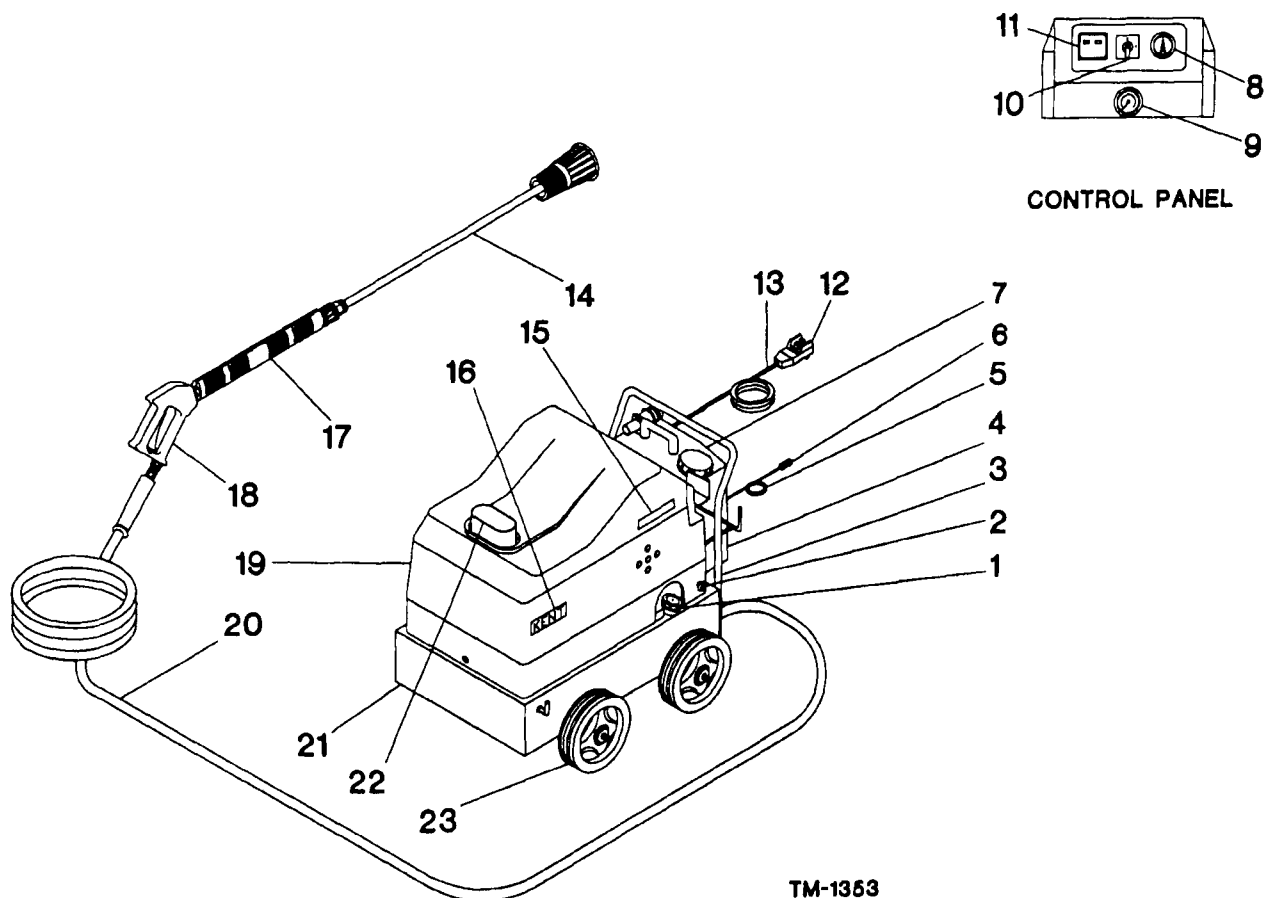
MARCH 1993

TABLE OF CONTENTS

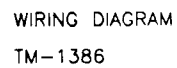
	Page(s)
EQUIPMENT SPECIFICATIONS	2
STANDARD EQUIPMENT	3
WIRING	4
ELECTRODE SETTING	5
FLOW DIAGRAM	6
SPRAYING PRECAUTIONS	7
ELECTRICAL PRECAUTIONS	7
FUEL & VENTILATION PRECAUTIONS	8
DETERGENT CLEANING PRECAUTIONS	8
MISCELLANEOUS SAFETY PRECAUTIONS	8
GENERAL & SERVICE INFORMATION	9
INSTALLATION	10
DELIVERY	10
ELECTRICAL	10
INSTALLATION PRECAUTIONS	11
PREPARATION	11
ATTIRE	11
PUMP OIL	11
WATER SUPPLY	11
POWER CORD CONNECTION	11
OPERATION	12
OPERATING THE WASHER	12
ADJUSTING NOZZLE WAND PRESSURE	12
SPRAY PATTERN ADJUSTMENT	12
CHEMICAL INJECTION SYSTEM	12
DETERGENT CLEANING	13
SHUT - DOWN PROCEDURE	13
MAINTENANCE	14
SERVICE	15
PARTS LISTING & BILL OF MATERIAL	16-23
TROUBLE SHOOTING	24

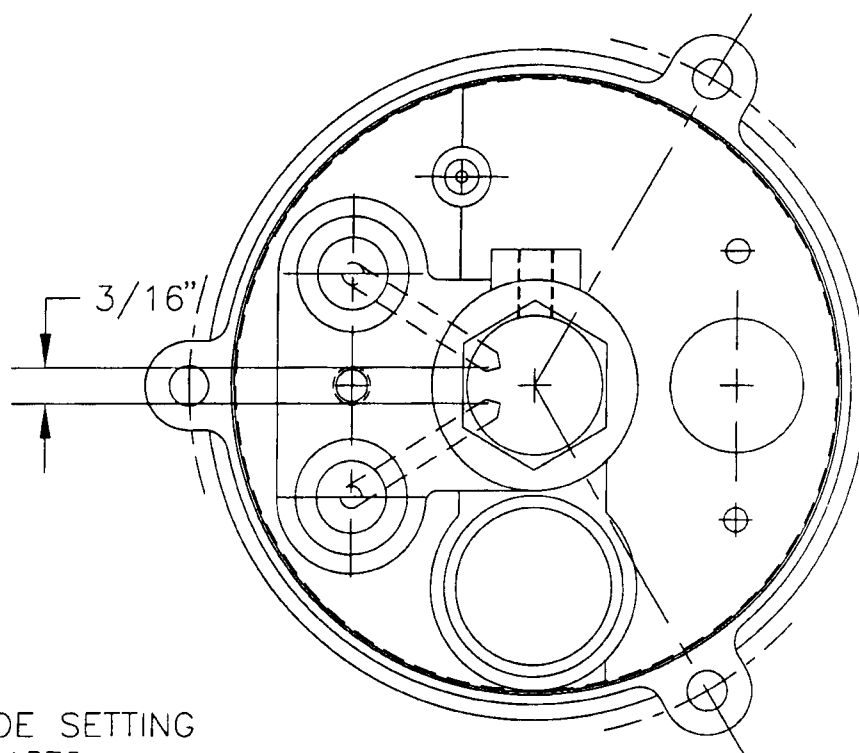
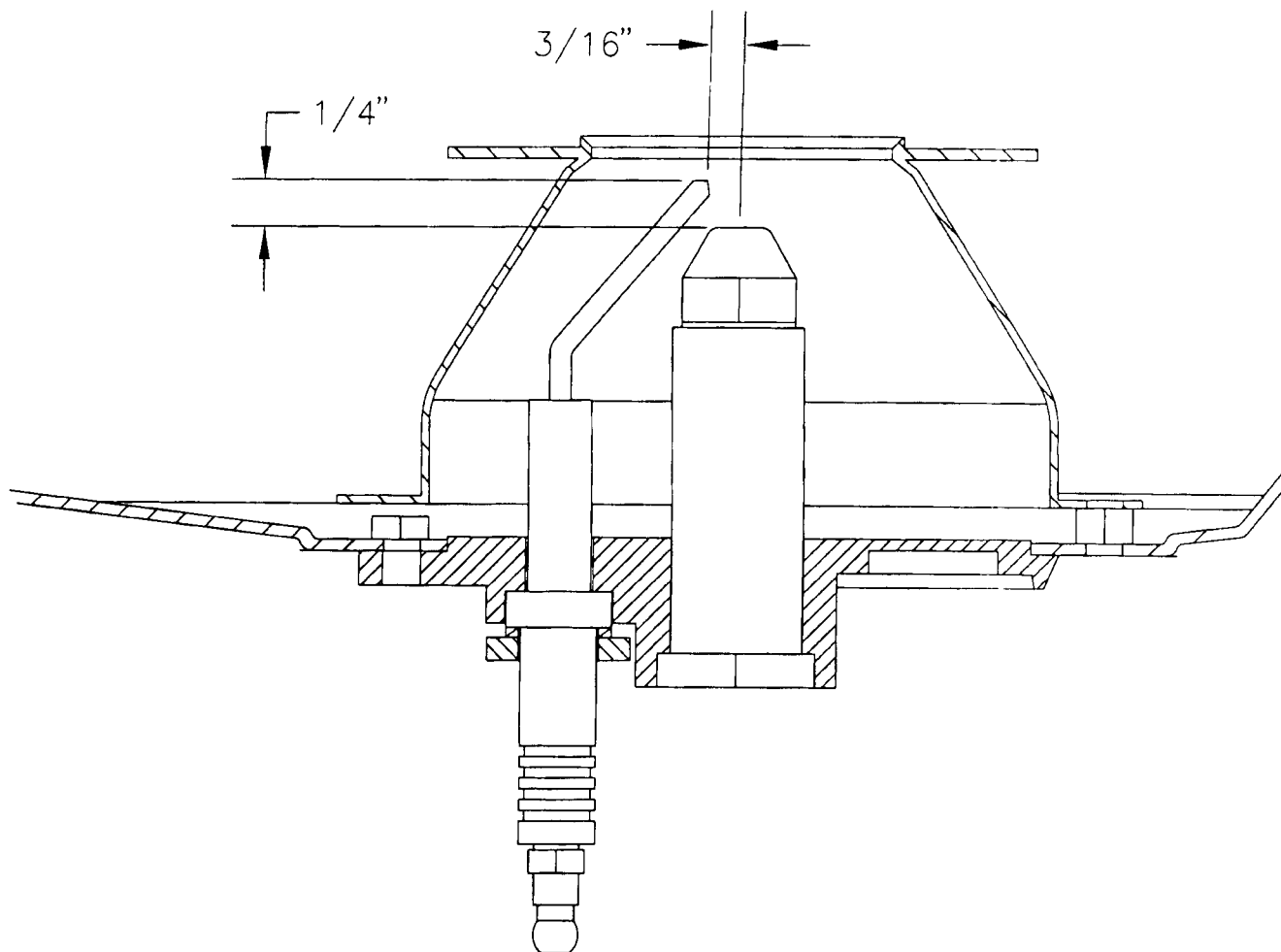
EQUIPMENT SPECIFICATIONS

MODEL NUMBER	KW-1015H
OPERATING VOLTAGE	115/1/60
AMPERAGE	17 amps
PRESSURE	1000 psi
FLOW RATE	2.0 gpm(cold or hot) 1.0 gpm (steam)
MAX INLET WATER TEMP.	70°F (52°C)
MAX OUTLET WATER TEMP	302°F (150°C)
POWER CORD LENGTH (ft.)	35 ft. with GFCI
PRESSURE HOSE LENGTH (ft.)	50 ft.
STANDARD NOZZLE ANGLE (deg.)	15°(std.)
LANCE LENGTH (in/cm)	38/96.5
HEATING CALORIES PER HOUR	
HEATING CALORIES (hot water)=	36,500
HEATING CALORIES (steam)=	32,000
BTU PER HOUR	
BTU (hot water)=	145,300
BTU (steam)=	127,500
FUEL TANK CAPACITY (gal)	2.9 gal.
FUEL TYPE	#1 or #2 Diesel or Kerosene
BOILER (heat exchanger)	Vertical, double coil type
PUMP STYLE	Triplex, axial piston, direct drive
PUMP OIL TYPE	SAE 30 non-detergent oil
MOTOR HP	1.5
MOTOR RPM	1700
LENGTH (in/cm)	33/83.8
WIDTH (in/cm)	25/63.5
HEIGHT (in/cm)	33/83.8
MACHINE WEIGHT (lbs/kg)	197/89.5
SHIPPING WEIGHT (lbs/kg)	245/111

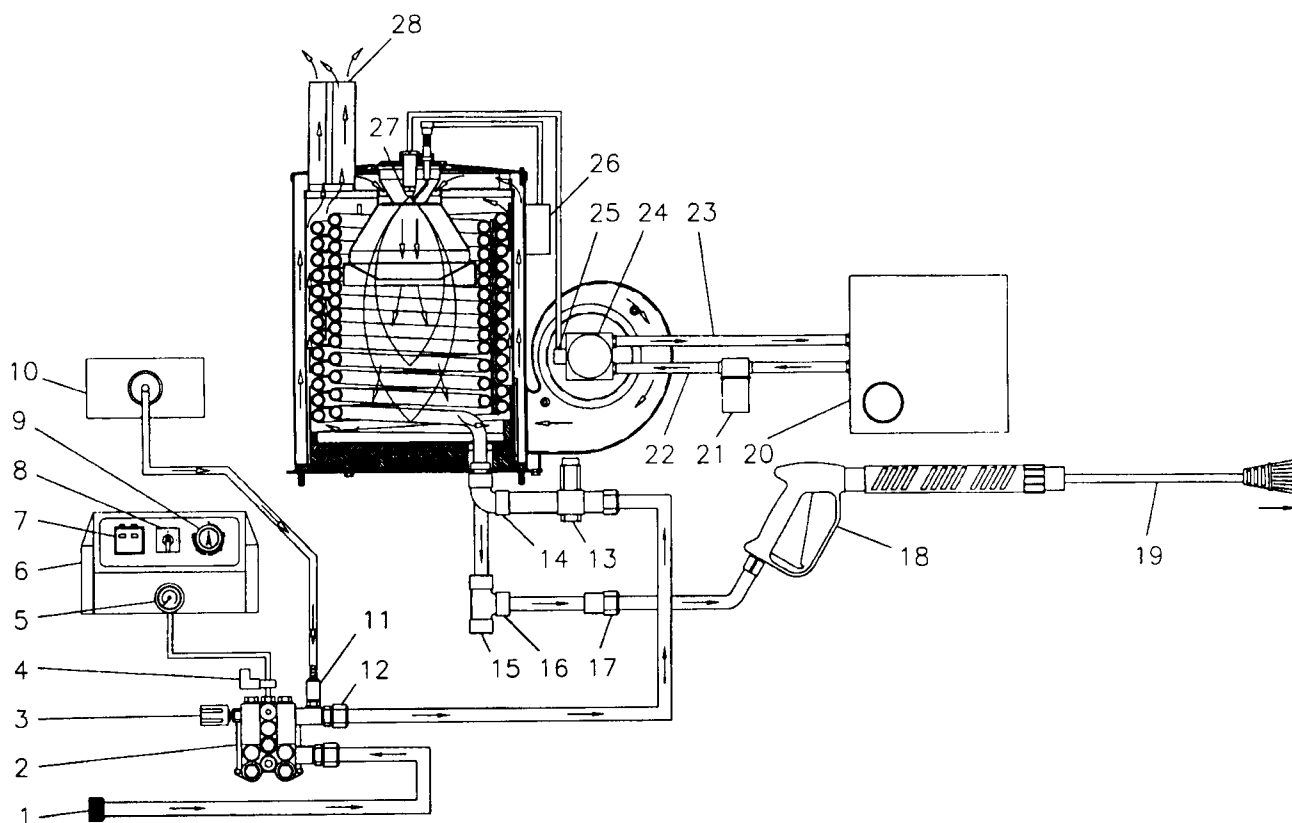


1.	FUEL CAP
2.	FIXING SCREWS
3.	TUBULAR HANDLE
4.	WIRE DETERGENT BASKET
5.	DETERGENT HOSE
6.	DETERGENT STRAINER
7.	DETERGENT CONTAINER
8.	THERMOSTAT
9.	PRESSURE GAUGE
10.	BURNER SWITCH
11.	START / STOP SWITCH
12.	GFCI
13.	POWER CORD
14.	LANCE (WAND) WITH NOZZLE
15.	MODEL NUMBER DECAL
16.	KENT DECAL
17.	INSULATED GRIP
18.	SPRAY HANDLE (GUN)
19.	HOUSING
20.	"HP" HOSE
21.	FRAME
22.	EXHAUST STACK
23.	WHEELS





ELECTRODE SETTING
TM-1372



REF	DESCRIPTION
1	WATER INLET-PUMP
2	MOTOR/PUMP ASSEMBLY
3	ADJUSTABLE UNLOADER
4	PRESSURE SWITCH
5	PRESSURE GAUGE
6	CONTROL PANEL
7	ON/OFF SWITCH
8	BURNER SWITCH
9	TEMPERATURE CONTROL
10	CHEMICAL TANK
11	ADJUSTABLE CHEMICAL INJECTOR
12	WATER OUTLET-PUMP
13	PRESSURE RELIEF VALVE
14	WATER INLET-BOILER
15	TEMPERATURE SENSOR
16	WATER OUTLET-BOILER
17	OUTLET CONNECTION
18	GUN ASSEMBLY
19	LANCE ASSEMBLY
20	FUEL TANK
21	FUEL FILTER
22	FUEL SUPPLY LINE
23	FUEL RETURN LINE
24	FUEL PUMP
25	FUEL SOLENOID
26	TRANSFORMER
27	FUEL NOZZLE
28	EXHAUST

FLOW DIAGRAM--KW-1015H
TM-1369

SPRAY PRECAUTIONS:

WARNING! **HIGH PRESSURE SPRAY CAN CAUSE SERIOUS INJURY.** **Read these warnings before using.**

1. **KEEP AWAY FROM 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 tip.

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. Other protective equipment such as rubber suits, gloves and respirators are advisable, especially when using cleaning detergents.

3. **DO NOT** direct spray toward fragile materials such as glass. Shattering could occur resulting in injury to the operator or bystander(s).

4. Even after the unit is shut off, there can be high pressure water left in the pump, hose and gun until you release it by triggering the gun. **ALWAYS** after shutting the unit off, trigger the gun to release trapped pressure.

5. **ALWAYS** hold on firmly to the gun/wand assembly when starting and operating the unit. **NEVER** operate the gun with the trigger "wired" in the open position.

ELECTRICAL PRECAUTIONS:

1. **THIS UNIT MUST BE PROPERLY ELECTRICALLY GROUNDED.** Failure to insure proper grounding risks serious personal injury. Never use a two prong adapter on the three prong electrical plug that is standard on this unit.

2. Observe **ALL** national, state and local codes providing for installation of electrical requirements.

3. Before plugging the unit into a compatible power source, be certain the switch(es) are in the "OFF" position.

4. When leaving the unit unattended, **ALWAYS** unplug from the receptacle.

5. Before attempting any repairs on this unit, **BE CERTAIN** to unplug the cord from the electrical source. Plug in again only to verify troubleshooting success.

6. The electrical cord and any connections should **NEVER** be allowed to lay in water. This creates a hazard and a potential for severe shock. All cords and connections should be inspected before each use for any cuts or scrapes. If the outside cover of the cord has been penetrated, do not operate until repairs are made.

7. **DO NOT** attempt to use this unit on or in close proximity to electrical installations of any kind. This includes electrical outlets, light bulbs, fuse boxes, transformers, etc. Severe electrical shock may occur.

FIRE AND VENTILATION PRECAUTIONS:

1. **NEVER** fill fuel tank while unit is running or hot. After unit has cooled, refuel slowly to avoid spillage.
2. Fill the fuel tank only with good quality No. 1 or No. 2 Diesel OR Kerosene. **NEVER** use gasoline, crankcase drainings or oil containing gasoline or solvents.
3. **NEVER** operate this unit in the presence of flammable vapors, dust, gases, or other combustible materials.
4. **DO NOT** leave the unit unattended after shut-down until the "cool down" procedure is complete as described in "SHUT-DOWN" , p. 13.
5. Observe **ALL** national, state and local codes providing for indoor installation of this unit. Consult your Kent® service center or a qualified heating or furnace contractor for permanent installation.
6. When using indoors or in a closed 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 motor overheating. Burner exhaust and combustion products must be vented to the outside of the building.
7. Do not operate unit without cover in place.

DETERGENT CLEANING PRECAUTIONS:

1. **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.
2. **ALWAYS** wear eye protection when using a pressure washer. Other protective clothing, e.g. rubber suits, rubber gloves, respirator, etc. may be necessary. Read the detergent label for recommended safety attire.
3. **DO NOT** use highly corrosive detergents or acid type cleaners with this pressure washer.
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. Use **ONLY** genuine Kent® parts for repair of your pressure washer. Failure to do so may cause hazardous operating conditions and will void warranty.
2. The operator should **NEVER** squeeze trigger unless securely braced. The thrust from the water traveling through the nozzle is powerful enough to cause the operator to lose balance if unprepared.
3. **DO NOT** lay hose directly over the heat exchanger (coil). Avoid dragging hose over abrasive surfaces. 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 high pressure spray. If a hose or fitting is leaking, **NEVER** place your hand directly on the leak.
4. **DO NOT** operate if you see any fuel oil, pump oil, or water leaks from the unit. **DO NOT** resume operation until the unit has been inspected and repaired by your Kent® service center.
5. Make certain all connections are secure before operating the pressure washer.
6. **DO NOT** operate the trigger gun in high places without the proper safety equipment to prevent injury from a fall.
7. Be sure any accessory items and system components being used will withstand the unit pressure generated. **NEVER** alter or modify equipment - your personal safety, as well as the function of the equipment are at stake.
8. **DO NOT** try to overtighten any pressure adjustment. This may cause excessive pressure, intermittent unloader operation, and increased wear on parts.

GENERAL & SERVICE INFORMATION

GENERAL INFORMATION

Your machine has been especially engineered and manufactured to give the maximum performance in cleaning large areas.

With careful maintenance, according to the instructions outlined in the following pages, a high standard of operation throughout will be insured.

Carefully inspect all components to insure that there is no concealed freight damage. If such damage is discovered, file a "damage report" immediately with the delivering carrier.

The contents of this manual are based on the latest product information available at the time of publication.

The right is reserved to make changes at any time without notice in price, color, materials, equipment, specifications, or models.

SERVICE INFORMATION

To obtain consistent performance over the life of your machine, read through these instructions and keep them handy for future reference. If you require service, contact the dealer from whom the machine was purchased, or the local authorized Kent service agency. Always refer to your Kent limited warranty for complete service information.

The model, type and serial number are indicated on the data plate. For prompt and complete information, always refer to these numbers when inquiring about service.

THE KENT CO. ELKHART, INDIANA USA		
SERIAL NO.		MODEL
VOLTS	PHASE	Hz
MOTOR 1	AMP	Hz
MOTOR 2	AMP	Hz

Write the model and serial number of your unit in the space provided. Refer to the rating plate on unit.	
MODEL #	SERIAL #
Retain this owner's manual for future reference.	

INSTALLATION

DELIVERY:

1. 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.
2. Inspect the contents of the carton and be sure that no components are missing. If something appears to be missing, contact your Kent® customer service representative.

ELECTRICAL:

1. According to the National Electrical Code (NEC) 1987, 422, 8 (d)(3), "The supply and internal wiring of portable high pressure spray washing machines shall have ground-fault-circuit-interrupter (GFCI) which is designed to protect people from line-ground shock hazards. All power cords and equipment connected down-line from a GFCI device are protected. The device does not protect against line-to-line or line-to-neutral faults. It also does not protect against short circuit or overloads. This is the function of the fuse or circuit breaker.
2. Kent® recommends that all electrical service be performed by a qualified licensed electrician.
3. Be sure that all electrical connections are made in accordance with national, state and local codes. Failure to do so will void warranty.
4. The unit must be properly electrically grounded and connected to a circuit that is wired for the voltage specified on the identification plate on the unit.

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment grounding conductor and 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 an equipment grounding conductor can result in risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance. If it will not fit the outlet, have proper outlet installed by a qualified technician. This appliance is for use on a nominal 120 volt circuit and has a grounding plug. A temporary adaptor may be used to connect this plug to a two pole receptacle if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.

GROUND-FAULT CIRCUIT-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 electrical shock. Should replacement of the plug or cord become necessary, use only identical replacement parts that include GFCI protection.

EXTENSION CORDS: Use only 3-wire extension cords that have 3-prong grounding-type plugs and 3-pole cord connectors that accept the plug from the washer. Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for 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 disconnect. Keep cord away from heat and 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 with wet hands.

VENTILATION:

A qualified serviceman, familiar with national, state and local codes should be contacted prior to permanent installation indoors or in an enclosed area. The burner exhaust should be stacked to the outside atmosphere and a barometric draft regulator should be installed as well.

INSTALLATION PRECAUTIONS:

1. The unit should only be operated on a **level surface** to insure proper lubrication for the water pump.
2. **DO NOT** install the unit where combustible materials, vapors, or dusts are present or likely to be present.
3. If the unit is installed in an enclosed area, be certain the ambient temperature in that environment does not exceed 100°F. This will insure adequate air supply for the burner.
4. When not in use do not leave the unit exposed to rain, snow, or freezing temperatures. (Refer to winterizing section, page 15).

PREPARATION

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.

PUMP OIL:

1. Pump oil level should be checked once a week. Open the hood on the unit to see pump sight glass. Make certain oil is at the proper level indicated by the dot on the sight glass. If low, fill with SAE 30 non-detergent oil. Do not overfill.

WATER SUPPLY:

1. Connect water supply hose to the 3/4 inch female garden hose swivel on the inlet of the unit. Thread the other end of the hose to your pressurized water supply. NOTE: Supply hose should be 3/4" inside diameter (ID) and no longer than 50 feet.
2. The inlet water pressure to the unit must be a minimum of 20 pounds per square inch (PSI), a maximum of 125 PSI, and the flow must be at least 4 gallons per minute (GPM).
3. If the mineral content of the water in your area is extremely high, the use of a water softener is recommended to prevent the possibility of excessive scale build-up in the coil/heat exchanger.
4. Connect the high pressure discharge hose, one end to the washer, and the other end to the gun assembly. The nozzle assembly should be separated from the gun assembly at this time. Make certain that all connections are securely tightened together.

POWER CORD CONNECTION:

1. Make certain motor switch is in "OFF" position.
2. Ensure proper voltage.
3. Insert the male plug into a grounded AC outlet.
4. Press and release the reset button on the GFCI (cord).
5. Push reset each time after plugging in.

OPERATION

COLD WATER:

1. After following all the preparation instructions, turn on the water supply.
2. Trigger gun should be locked in the "OFF" position when not in use. Remove the nozzle-wand assembly.
3. Turn unit on by pushing black button on the control panel holding trigger gun open for two (2) minutes. This purges any air or mineral deposits from the entire system.
4. Release the trigger and lock in "OFF" position. Connect the nozzle-wand assembly to gun assembly. To ensure you are in the high pressure mode, turn the nozzle clockwise.
5. Unit can now be used as a cold water pressure washer. Open trigger gun to spray, and release trigger to stop.
6. Adjust pressure accordingly.
7. DO NOT allow unit to operate in bypass mode (with trigger closed) for more than three (3) minutes. Failure to do so may cause premature failure of pump packings.

CAUTION: Never look directly at nozzle orifice unless it is disconnected from the spray wand.

HOT WATER:

1. Fill fuel tank with 2.9 gallons of #1 or #2 Diesel OR Kerosene.
2. Follow steps 1-5 for cold water operation above.
3. Turn the burner switch located on the control panel to "ON" (position 1). Open the trigger gun to spray. (Burner will not fire unless trigger is opened.) Set thermostat on the control panel to desired temperature.

NOTE: Some delicate jobs may require less heat. On initial startup, water will begin turning hot in approximately 30 seconds and will reach maximum temperature in 2-1/2 minutes, provided trigger remains open. The burner will stop firing when trigger is released. The thermostat may cause combustion to cease if water exceeds the temperature setting. Combustion will begin again when the water temperature drops below the thermostat setting.

4. DO NOT allow unit to operate in bypass mode (with trigger closed) for more than three (3) minutes. Failure to do so may cause premature failure of pump packings.
5. Unit is now operating as a hot water pressure washer.

CAUTION: Exposed metal exhaust outlet and hose connections are extremely hot.

6. Cool down the heat exchanger by turning the thermostat and burner switch to the "O" position. Allow unit to run triggered in the "ON" position for a minimum of three (3) minutes.

STEAM:

1. Follow steps 1 and 2 for Hot Water Operation. (See NOTE in Hot Water Operation also.)
2. Remove the cover from the unit.
3. Turn thermostat to maximum temperature with gun triggered. Allow water to reach maximum temperature.
4. Locate the unloader valve on the pump manifold. With the gun triggered "ON", turn the unloader valve counter-clockwise until burner shuts off. Slowly turn the unloader valve clockwise to re-start the burner and reach desired pressure. Once the chosen temperature and pressure is achieved, release trigger gun and replace cover on the unit. **NEVER** operate unit with the cover removed unless adjusting pressure.
5. Unit is now operating in a low pressure steam mode.

CAUTION: Exposed metal exhaust outlet and hose connections are extremely hot.

6. Cool down the heat exchanger by turning the thermostat and burner switch to the "O" position. Allow unit to run in triggered "ON" position for a minimum of three (3) minutes.

DETERGENT CLEANING

IMPORTANT: This feature is designed for use with mild detergents. Only use chemicals with a 5.5-8.5ph level.

1. Prepare detergent solution according to label directions.
2. Immerse the strainer end of clear vinyl hose into detergent solution to allow detergent to siphon. Turn the nozzle at the end of the wand counter-clockwise for low pressure.
3. Start the unit as directed in the "OPERATION" procedure outlined earlier.
4. Brace yourself, and trigger the gun. In a few moments a detergent/water mixture will exit the low pressure nozzle.
5. To apply the solution, 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. DO NOT allow detergent solution to dry on surface.
6. To rinse, turn the nozzle clockwise at the end of the wand. It will take approximately 30 seconds to purge all detergent from the line.
7. For best rinsing results, start at the top and work down.
8. It is always recommended that a gallon of water be siphoned 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.

SHUT-DOWN PROCEDURES

IMPORTANT: For safety and mechanical reasons, you must follow the procedures outlined below:

1. Run one gallon of clean water through detergent lines.
2. If switch is still in burner position, turn switch to "OFF" position.
3. Set temperature control at minimum setting.
4. Squeeze trigger and discharge water for a period of three minutes to cool burner components.
5. Turn unit "OFF" with red button located on control panel.
6. Turn off water supply.
7. Trigger gun momentarily to relieve any trapped pressure.
8. Disconnect and store hoses.

MAINTENANCE

1. There is a water screen at the water intake on the unit. It should be inspected, removed and cleaned before each use.
2. **ALWAYS** be certain the unit is receiving proper voltage. If the use of an extension cord is required consult your local Kent® service center. Be certain the cord is equipped with the appropriate ground prong plug to insure proper grounding. Do not allow electrical cords or connections to lay in water or in such a position where water could come in contact with them.
3. **ALWAYS** follow the "SHUT-DOWN" procedures outlined in this manual.
4. **DO NOT** allow unit to operate in bypass mode (with trigger closed) for more than three (3) minutes without triggering the gun.
5. **DO NOT** allow pump to run dry (without incoming water line attached and turned on).
6. 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.
7. **NEVER** allow the unit to operate without the water supply turned all the way on.
8. Upon finishing the use of the detergent, be certain to run a gallon of clean water through the injection line to flush out any possible corrosive agents as well as to prevent the possibility of soap residue impairing any working parts.
9. The oil in the pump crankcase must be changed after the initial 50 hours of the unit operation, and every 250 hours after that, or three months, whichever comes first. Use only 30 weight non-detergent oil (SAE-30) and fill only to the dot on the sight glass. **DO NOT OVERFILL**. The oil level in the pump should be checked at least once weekly.
10. Use only a good quality, clean No.1 or No. 2 Diesel OR Kerosene.
11. Have the fuel filter to the burner changed every six months or more often if necessary.
12. Have the screen in the fuel pump on the burner inspected and/or replaced at least once yearly.
13. **DO NOT** store the unit 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°F can cause the pump to crack. If storage in freezing conditions is necessary, follow the winterizing procedures on the following page.
14. **NEVER** spray water directly into the unit or store the unit outdoors where it can be exposed to rain or other adverse weather conditions.
15. If the mineral content of the incoming water 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 your local Kent® service center.
16. Due to the unknown and often corrosive characteristics of many detergents commonly used in the pressure washer cleaning industry, it may be necessary to repair or replace components on the detergent injector system (such as the check valve) periodically as part of normal maintenance.
17. **NEVER** pump acids, alkaline, or abrasive fluids through the unit.
18. **NEVER** operate unit with the cover removed.

WINTERIZING

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 0°F.

ITEMS NEEDED:

1. Kent® blow-down valve kit #M852-0066.
2. Air line with air chuck.

PROCEDURES:

1. Ensure water supply hose is disconnected, power cord is unplugged, and spray nozzle is detached.
2. Assemble the blow-down valve to the water inlet of the unit.
3. Open trigger gun and attach air line to blow-down valve to blow water from system.
4. Continue blowing air for approximately 5 minutes.
5. Detach the air line and release the trigger gun.
6. Disassemble the blow-down valve from unit inlet and store blow-down valve and unit anywhere desired.

MAINTENANCE SCHEDULE

Your local Kent® service center is qualified to perform the following maintenance procedures outlined below. Contract them to service your unit at least once every three months. Cost is minimal, and a small investment in preventative maintenance will add countless hours of life to your pressure washer.

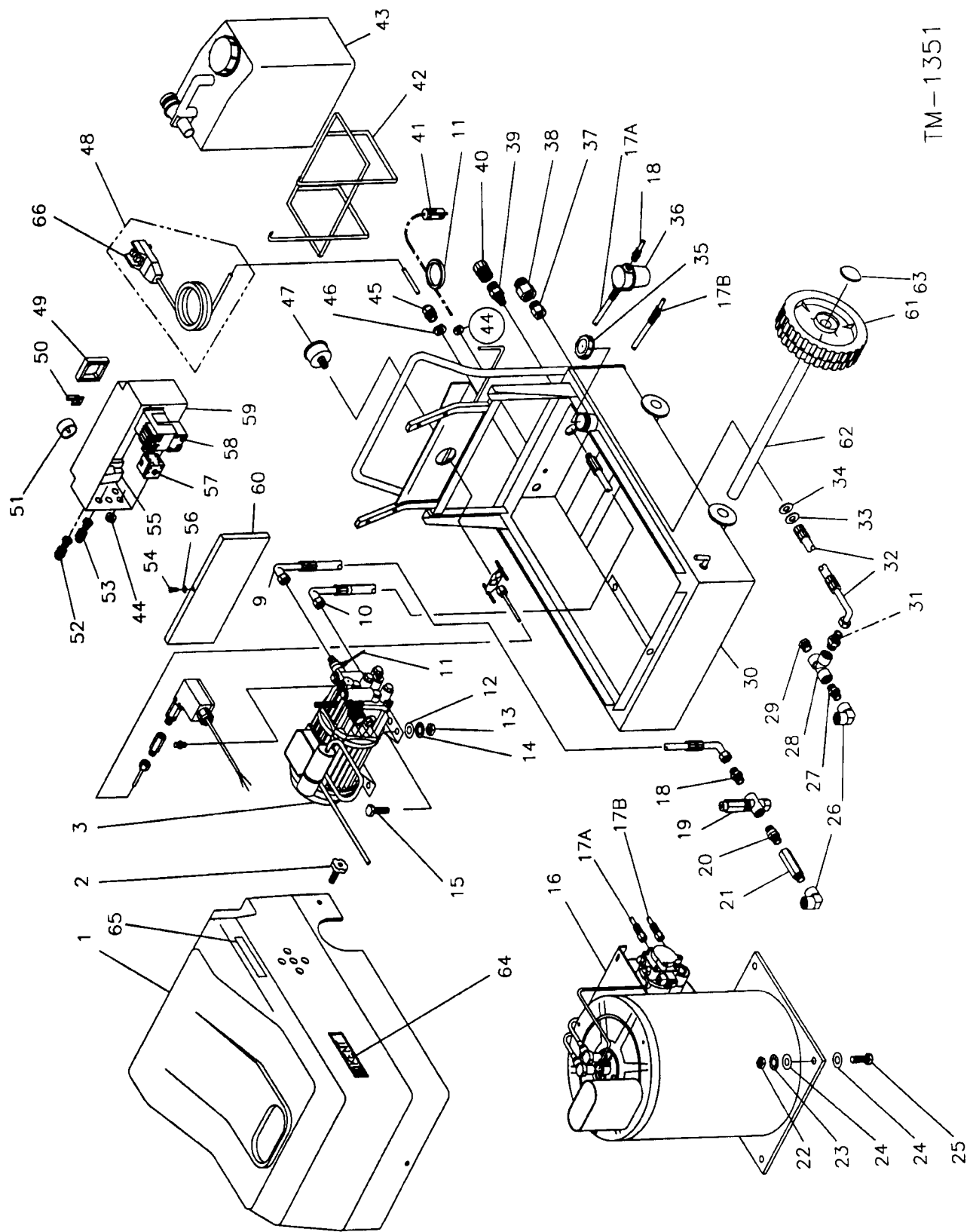
PROCEDURE	3 months	6 months	9 months	12 months
Pump oil change*	•	•	•	•
Replace fuel filter	•	•	•	•
Test water nozzle		•		•
Replace fuel oil nozzle				•
Fuel pump filter inspection				•
Hose inspection	•	•	•	•
Leak inspection	•	•	•	•
Burner inspection test				•

*The pump oil must be changed after the first 50 hours of operation and every 250 hours, or three months of use, whichever comes first.

DAILY INSPECTION PROCEDURES

Inspect the following before and after starting the unit:

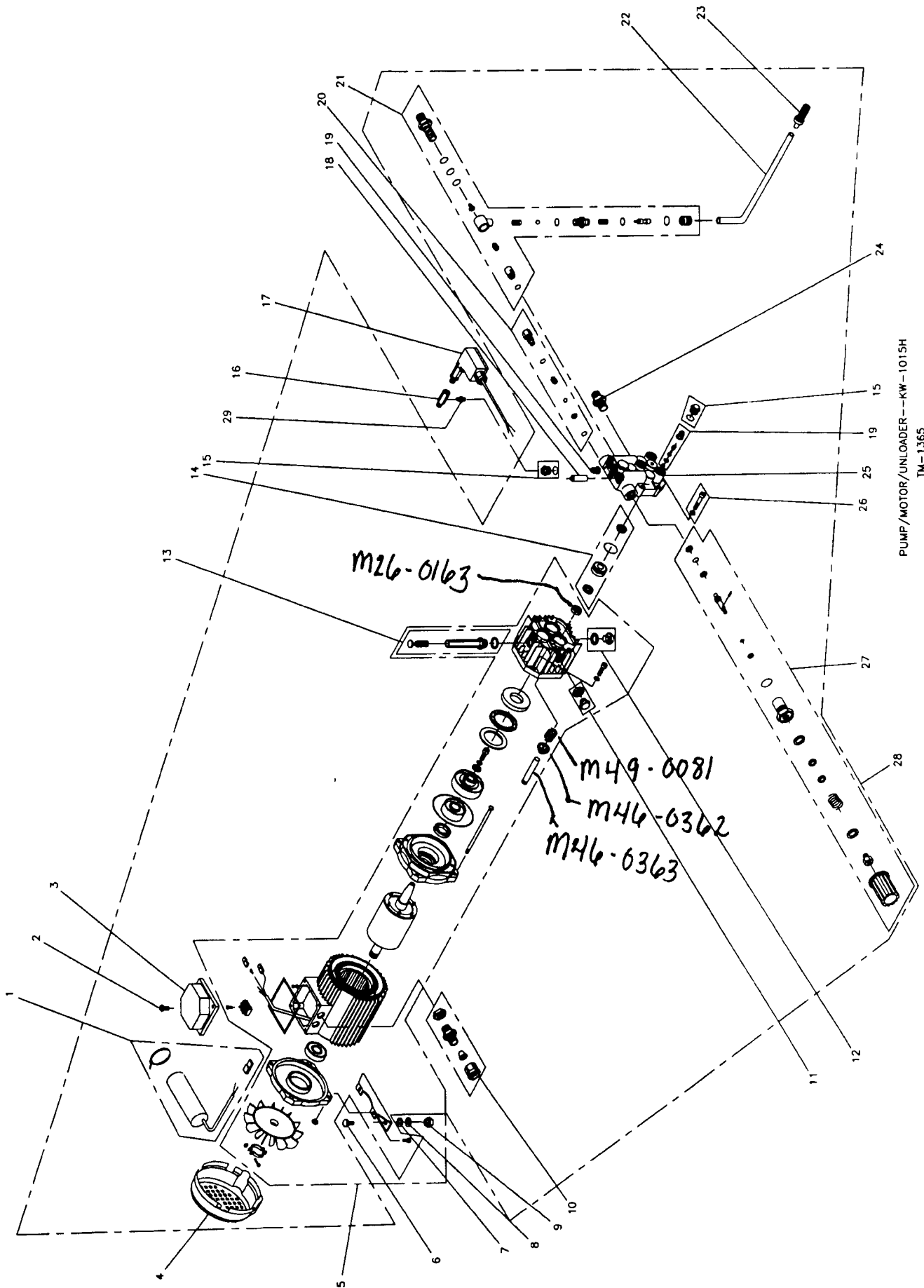
- Check oil level in pump weekly.
- Inspect inlet water strainer
- Inspect for system water leaks.
- Inspect for oil leaks.
- Inspect for fuel leaks.
- Inspect high pressure hose for kinking, cuts or leaks.
- Inspect all electrical cords for cuts or breaks in covering.



TM-1351

KW-1015H ASSEMBLY

DET	PART NO.	DESCRIPTION	QUANT
1	M62-0073	COVER,HOUSING--FIBERGLASS,MMPW	1
2	M33-0170	SCREW,LID THUMB--KW1015H,MMPW	3
3	M3-0116	ASM,PUMP/MOTOR--MMPW	1
4	M22-0195	SWITCH,PRESSUER--KW1015H,MMPW	1
5	M23-0152	COUPLER,HEX--1015H,MMPW	1
6	M22-0173	LINE,PRES GAUGE--KW1015H,MMPW	1
7	M23-0214	ELBOW--1015H,MMPW	1
8	M23-0165	NIPPLE,HEX--1015H,MMPW	1
9	M15-0122	HOSE,WTR OUTLET--MMPW	1
10	M15-0126	HOSE,WTR INLET--MMPW	1
11	M15-0123	HOSE,DETERGENT--1015H,MMPW	1
12	M28-1014	WSHR--1015H,MMPW	4
13	M30-3024	NUT,HEX--MMPW	4
14	M28-0132	WSHR,METRIC--MMPW	4
15	M27-8808	SCR--1015H,MMPW	4
16	M44-0089	ASM,BURNER--KW1015H,MMPW	1
17	M15-0106	HOSE,FUEL--KW1015H,MMPW	1
18	M23-0170	NIPPLE,HEX--1015H,MMPW	1
19	M22-0196	VALVE,SAFETY--KW1015H,MMPW	1
20	M23-0169	CONNECTOR,SWIVEL--1015H,MMPW	1
21	M23-0212	COUPLER,HEX--1015H,MMPW	1
22	M30-6000	NUT,HEX--1015H,MMPW	4
23	M28-1008	WSHR--1015H,MMPW	4
24	M28-1011	WSHR--1015H,MMPW	8
25	M27-8801	SCR--1015H,MMPW	4
26	M23-0208	ELBOW--1015H,MMPW	2
27	M23-0200	NIPPLE,HEX--1015H,MMPW	1
28	M23-0209	TEE,FEMALE--KW1015H,MMPW	1
29	M23-0206	O-SEAL,METRIC--1015H,MMPW	1
30	M5-0099	FRAME,MAIN--KW1015H,MMPW	1
31	M23-0205	NIPPLE,HEX--1015H,MMPW	1
32	M15-0121	HOSE,OUTLET--KW1015H,MMPW	1
33	M28-1001	WSHR--1015H,MMPW	1
34	M28-1000	WSHR--1015H,MMPW	1
35	M39-0061	CAP,FUEL--KW1015H,MMPW	1
36	M19-0064	FILTER,FUEL--KW1015H,MMPW	1
37	M23-0197	NIPPLE--1015H,MMPW	1
38	M23-0215	CONNECTOR,QUICK--MMPW	1
39	M23-0153	SWIVEL,GARDEN HOSE--MMPW,1015W	1
40	M23-0186	CONNECTOR,GARDEN HOSE--MMPW	1
41	M19-0062	STRAINER,DETERGENT--MMPW	1
42	M33-0168	BASKET,WIRE--DET. CONT.,MMPW	1
43	M12-0047	CONTAINER,DETERGENT--MMPW	1
44	M39-0062	BUSHING--1015H,MMPW	1
45	M9-0051	BUSHING,STRAIN RLF--MMPW	1
46	M30-6006	NUT,HEX--1015H,MMPW	1
47	M22-0166	GAUGE,PRESSURE--KW1015H,MMPW	1
48	M32-0352	CORD,POWER W/GFCI-MMPW	1
49	M62-0038	COVER,SWITCH-ON/OFF,MMPW	1
50	M7-0095	KNOB,BURNER--KW1015H,MMPW	1
51	M7-0094	KNOB,THERMOSTAT--KW1015H,MMPW	1
52	M9-0054	BUSHING,CORD--1015H,MMPW	1
53	M9-0055	BUSHING,CORD--MMPW	3
54	M27-8824	SCR--1015H,MMPW	3
55	M22-0172	THERMOSTAT--KW1015H,MMPW	1
56	M28-0062	WSHR--1015H,MMPW	3
57	M32-0368	SWITCH,BURNER-ON/OFF,MMPW	1
58	M32-0367	SWITCH,MAIN-ON/OFF,MMPW	1
59	M32-0366	BOX,ELECTRIC--MMPW	1
60	M32-0365	COVER,ELECTRIC PANEL--MMPW	1
61	M14-0052	WHEEL--KW1015H,MMPW	4
62	M20-0345	AXLE,WHEEL--MMPW	2
63	M33-0055	CAP,HUB--MMPW	4
64	052283	LABEL,IDENT--KENT,1.937X7.437	2
65	M34-0494	LABEL,MODEL--KW-1015H	2
66	M32-0364	GRCI W/O CORD--15AMP,RA,MMPW	1

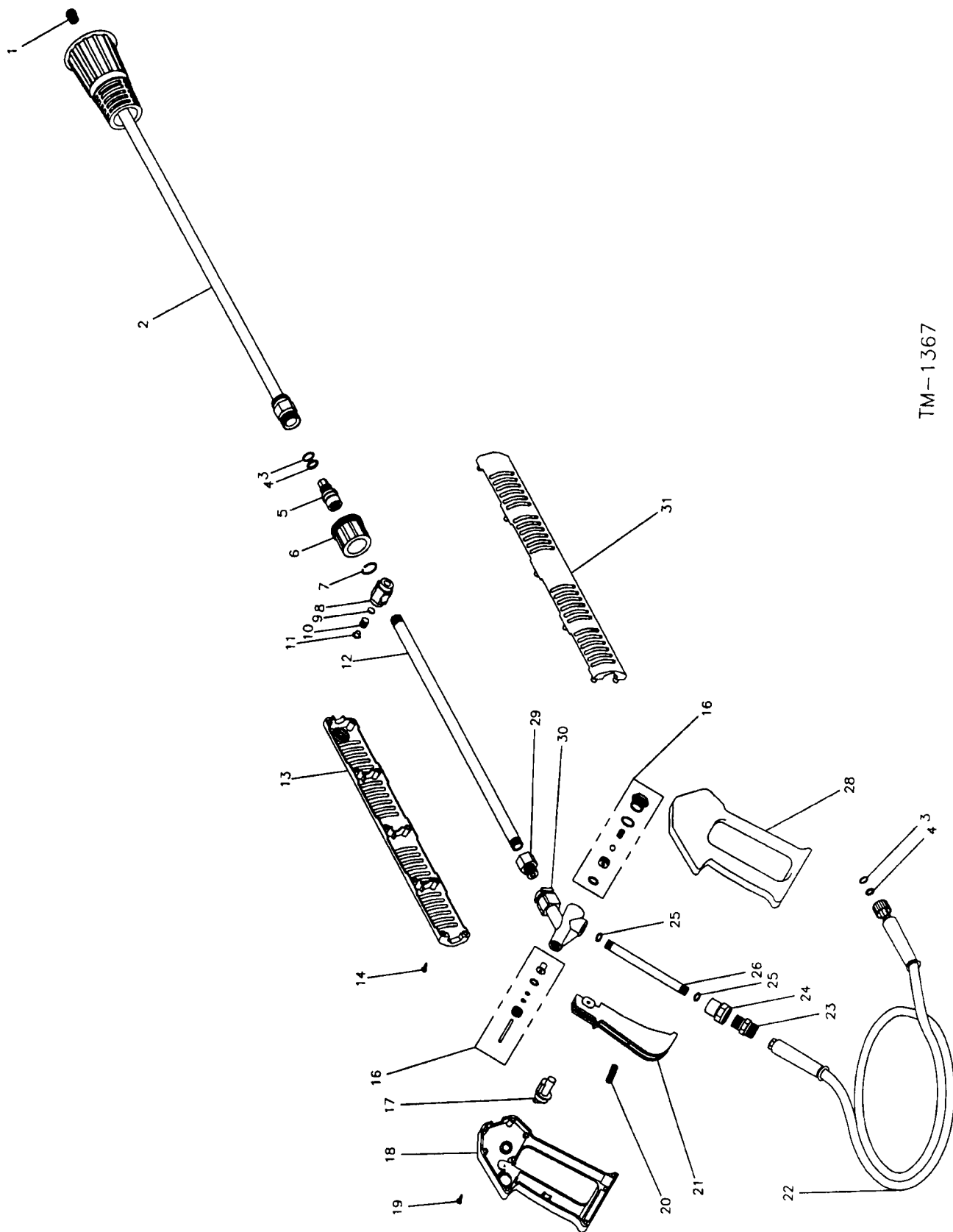


PUMP/MOTOR/UNLOADER--KW-1015H
TM-1365

PUMP, MOTOR, AND INJECTOR ASSEMBLY

DET	PART NO.	DESCRIPTION	QUANT
1	M52-0027	ASM,CAPACITOR--MMPW	1
2	M27-8196	SCR,METRIC--MOTOR,MMPW	2
3	M32-0376	COVER,SWITCH--1015H,MMPW	1
4	M52-0023	COVER,FAN--1015H,MMPW	1
5	M46-0480	PUMP/MOTOR ASM--KW1015H	1
6	M27-8808	SCR--1015H,MMPW	4
7	M28-1014	WSHR--1015H,MMPW	4
8	M28-0132	WSHR,METRIC--MMPW	4
9	M30-3024	NUT,HEX--MMPW	4
10	M9-0054	BUSHING,CORD--1015H,MMPW	2
11	M46-0419	GLASS,OIL SIGHT--MMPW	1
12	M46-0398	KIT,OIL DRAIN PLUG--MMPW	1
13	M39-0360	TUBE,OIL--1015H,MMPW	1
14	M46-0477	PACKINGS,VALVE--1015H,MMPW	3
15	M46-0478	PLUGS,MANIFOLD--MMPW	1

DET	PART NO.	DESCRIPTION	QUANT
16	M23-0152	COUPLER,HEX--1015H,MMPW	1
17	M22-0195	SWITCH,PRESSUER--KW1015H,MMPW	1
18	M46-0359	SPACER,VALVE--MANIFOLD,MMPW	5
19	M46-0401	ASM,VALVES--MANIFOLD,MMPW	6
20	M46-0479	KIT,VALVE--1015H,MMPW	1
21	M46-0476	INJECTOR,DETERGENT--KW2000G	1
22	M15-0123	HOSE,DETERGENT--1015H,MMPW	1
23	M19-0062	STRAINER,DETERGENT--MMPW	1
24	M46-0464	NIPPLE,HEX--MANIFOLD,MMPW	1
25	M46-0424	MANIFOLD,PUMP--1015H,MMPW	1
26	M27-8811	SCR,MANIFOLD--MMPW	1
27	M46-0474	ASM,PRES REG--1015W,MMPW	1
28	M3-0116	ASM,PUMP/MOTOR--MMPW	1
29	M23-0165	NIPPLE,HEX--1015H,MMPW	1

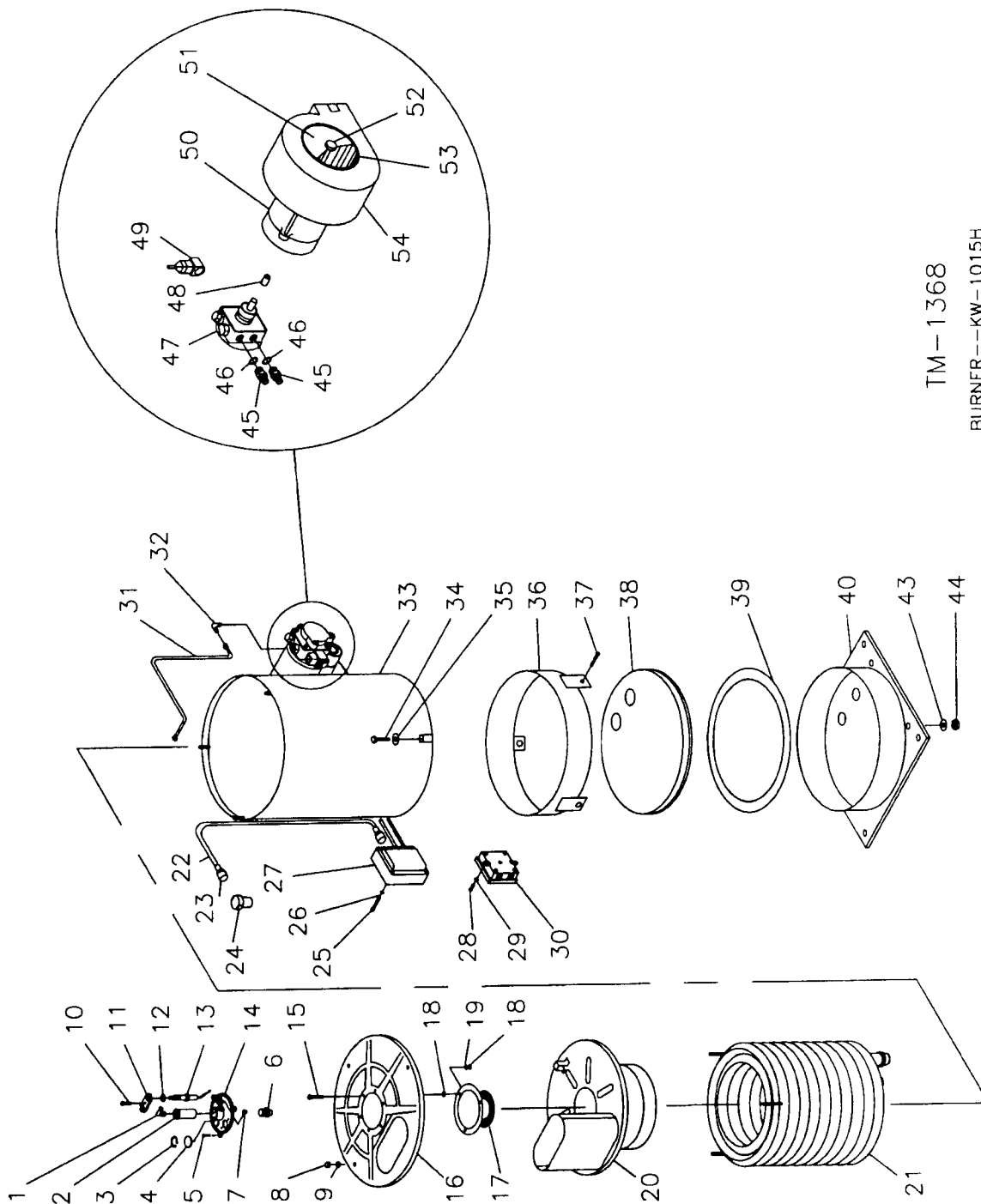


TM-1367

HANDLE AND LANCE ASSEMBLY

DET	PART NO.	DESCRIPTION	QUANT
1	M18-0054	NOZZLE, SPRAY--15 DEG, MMPW	1
2	M16-0196	LANCE ASM--STEAM, 1015H, MMPW	1
3	M25-0332	O-RING, METRIC--MMPW	2
4	M16-0242	BACK-UP RING--LANCE, MMPW	2
5	M16-0241	FITTING, HEX--LANCE, MMPW	1
6	M16-0239	NUT, PLASTIC--KW2800G	1
7	M16-0240	RING, SNAP--MMPW	1
8	M16-0281	HOLDER, LANCE--KW1015H	1
9	M16-0282	GASKET, COPPER--MMPW	1
10	M49-0103	SPRING, LANCE--KW1015H	1
11	M39-0075	PLUG, LANCE--KW1015H	1
12	M16-0277	TUBE--1/4M, 372G STAINLESS, MMPW	1
13	M16-0278	GUARD, LANCE--LH, KW1015H	1
14	M27-8850	SCREW, METRIC--MMPW	6
16	M16-0204	KIT, GUN REPAIR--1015H, MMPW	1

DET	PART NO.	DESCRIPTION	QUANT
17	M16-0267	TRIGGER, SAFETY LOCK--KW1015H	1
18	M16-0268	COVER, GUN--LH, KW1015H	1
19	M27-8851	SCREW, METRIC--MMPW	8
20	M16-0266	SPRING, TRIGGER--MMPW	1
21	M16-0265	TRIGGER, GUN--KW1015H	1
22	M50-0112	HOSE, HP COMPLETE--KW1015H, MMPW	1
23	M23-0217	NIPPLE, HEX--1015H, MMPW	1
24	M16-0264	CONNECTION, PIPE--3/8DIA, MMPW	1
25	M28-1020	WASHER, METRIC--MMPW	2
26	M16-0263	PIPE, GUN--HANDLE, KW1015H	1
28	M16-0271	COVER, GUN--RH, KW1015H	1
29	M16-0283	ADAPTOR--1/4 G MF, MMPW	1
30	M16-0269	VALVE BODY--BRASS, KW1015H	1
31	M16-0279	GUARD, LANCE--RH, KW1015H	1



TM-1368
BURNER--KW-1015H

BURNER ASSEMBLY

DET	PART NO.	DESCRIPTION	QUANT
1	M23-0207	ELBOW,BURNER-KW1015H	1
2	M33-0182	COUPLER,BURNER-MMPW	1
3	M25-0290	RING,SNAP-METRIC,MMPW	1
4	M33-0179	GLASS,SIGHT-BURNER,MMPW	1
5	M27-8805	SCR,METRIC-MMPW	3
6	M44-0091	NOZZLE,OIL-KW1015H	1
7	M27-8803	SCR,METRIC-MMPW	1
8	M30-6002	NUT,METRIC-MMPW	3
9	M28-0063	WSHR,METRIC-MMPW	3
10	M27-8807	SCR,METRIC-MMPW	1
11	M33-0180	PLT,ELECTRODE-BURNER,MMPW	1
12	M28-1007	WSHR,METRIC-ELECTRODE,MMPW	2
13	M32-0377	ELECTRODE,BURNER-MMPW	2
14	M33-0183	PLT,SUPPORT-ELECTRODE,MMPW	1
15	M27-8806	SCR,METRIC-MMPW	6
16	M20-0323	PAN, TOP-COIL ASM,MMPW	1
17	M20-0325	DEFLECTOR,HEAT-MMPW	1
18	M30-6001	NUT,HEX-METRIC,MMPW	6
19	M28-1009	WSHR,METRIC-MMPW	6
20	M20-0324	PAN,EXHAUST-COIL ASM,MMPW	1
21	M33-0181	ASM,COIL-BURNER,KW1015H	1
22	M44-0084	CABLE,ELECTRODE-MMPW	2
23	M32-0375	INSULATOR,CABLE-ELECTRODE,MPW	4
24	M44-0083	CONNECTOR,ELECTRODE-MMPW	2
25	M27-8818	SCR,METRIC	4
26	M28-0061	WSHR,METRIC-1015W,MMPW	4

DET	PART NO.	DESCRIPTION	QUANT
27	M32-0374	TRANSFORMER,BURNER-MMPW	1
28	M27-8816	SCR,METRIC-MMPW	2
29	M28-0062	WSHR-1015H,MMPW	2
30	M32-0357	BOX,JUNCTION-MMPW	1
31	M15-0125	FUEL LINE-BURNER,KW1015H	1
32	M23-0207	ELBOW,BURNER-KW1015H	1
33	M33-0177	OUTER WRAP-BURNER,MMPW	1
34	M27-8802	BOLT,METRIC-MMPW	3
35	M28-1011	WSHR-1015H,MMPW	3
36	M33-0178	RING, FIXING-BURNER,MMPW	1
37	M27-8825	BOLT,METRIC-MMPW	3
38	M33-0174	INSULATION,BOTTOM-KW1015H	1
39	M33-0175	RING, NONCONDUCTIVE-MMPW	1
40	M20-0326	SUPPORT, COIL BASE-KW1015H	1
43	M28-1003	WSHR,METRIC-MMPW	3
44	M30-6004	NUT,HEX-METRIC,MMPW	3
45	M23-0171	NIPPLE,HEX-MMPW	2
46	M28-1004	WSHR,METRIC-MMPW	2
47	M44-0086	PUMP,FUEL-KW1015H	1
48	M44-0094	COUPLER-PUMP/BURNER-KW1015H	1
49	M22-0200	VALVE,SOLENOID-MMPW	1
50	M44-0093	MOTOR,BURNER-KW1015H	1
51	M22-0199	REGULATOR,BURNER-KW1015H	1
52	M30-3024	NUT,HEX-MMPW	1
53	M44-0092	WHEEL,FAN-BURNER,MMPW	1
54	M33-0176	HOUSING,BURNER-MMPW	1

SERVICE DIAGNOSIS - FAULTS & REPAIR

PROBLEM	CAUSE	REMEDY
Pump motor will not run.	Circuit overload	Determine if burner motor runs. If not, check wall breaker, fuse, or GFCI.
	Motor overload.	Reset thermal overload button on the panel. After allowing motor to cool.
Pump runs but there is no spray.	Water turned off.	Check incoming water supply.
	Obstruction	Remove nozzle, clean orifice or replace with new nozzle.
Pump runs but has low spray pressure.	Inadequate incoming water supply.	Increase hose diameter and provide sufficient water supply. (20 PSI, 3 GPM)
	Worn nozzle	Replace with new nozzle.
	"HIGH PRESSURE" spray mode not engaged	Turn nozzle clockwise to "HIGH PRESSURE" mode.
Pump runs but there is erratic, fluctuating pressure; hose pulsates.	Not enough water is supplied.	Use larger inside diameter hose.
	Inlet strainer is clogged.	Clean strainer screen.
	Air entering water lines.	Check all incoming hose connections for water-tight seals. Make certain detergent valve is closed.
Burner motor will not run.	Circuit overload	Determine if pump motor runs. If not, check wall breaker or fuse.
	Switch not in "BURNER" position.	Check switch position.
***	Out of fuel.	Refuel.
Burner discharges black smoke.		Shut off machine and consult Kent® service center.
Detergent will not siphon into "low pressure" injection line.	Strainer obstructed or not submerged in solution.	Check screen on strainer, submerge in solution.
	Metering valve closed or obstructed.	Check valve knob position. Clean if necessary.
	Detergent hose cut or kinked.	Inspect hose, replace as necessary.
	Injector ball locked to O-ring.	Remove residue from injector check ball.
	Obstruction	Clean orifices.
No Working Pressure	Nozzle Obstruction	Clean nozzle
	Not enough water	Check the hose connection.
	High pressure hose/nozzle tubes frozen.	Thaw out.
	By-pass valve frozen.	Thaw out.
***	Scale deposits.	Descale coils.

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 60 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 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 six months from the date the machine was shipped from the factory, whichever comes first.

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 while in the possession of the purchaser are likewise excluded from this warranty. If repair is done on your equipment by anyone 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 REQUEST FOR INFORMATION

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