

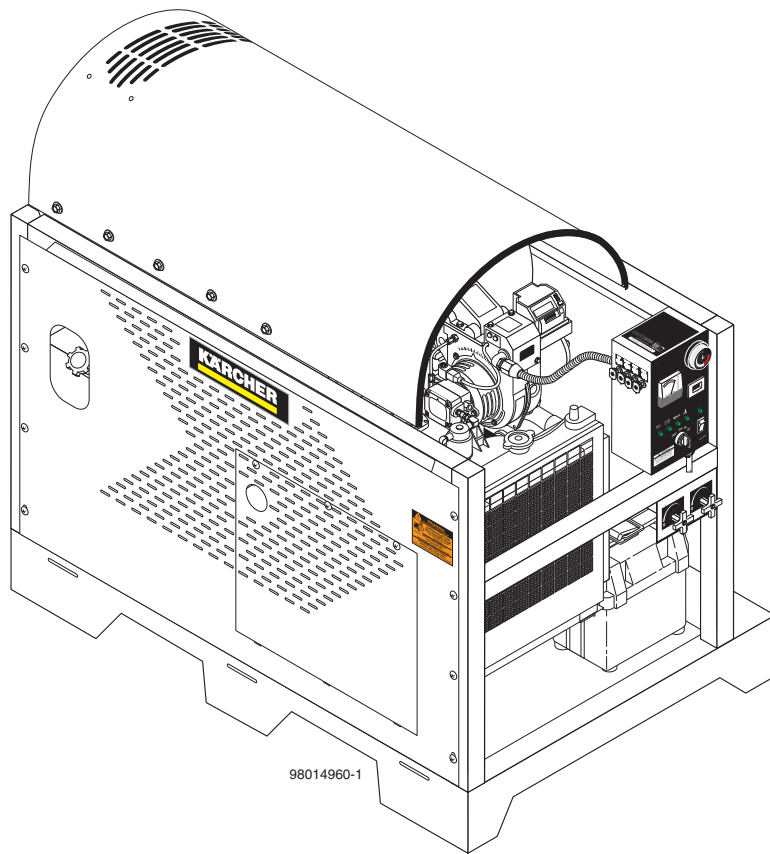
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12/14/22

<u>MODEL #</u>	<u>ORDER #</u>
HDS 30/22 DE Cage	1.110-601.0
HDS 37/22 DE Cage	1.110-602.0

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Model Number _____

Serial Number _____

Date of Purchase _____

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

INTRODUCTION & IMPORTANT SAFETY INFORMATION

Thank you for purchasing this Pressure Washer. We reserve the right to make changes at any time without incurring any obligation.

Owner/User Responsibility:

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

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

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

SAVE THESE INSTRUCTIONS


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

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

This machine is to be used only by trained operators.

IMPORTANT SAFETY INFORMATION

! WARNING



READ OPERATOR'S MANUAL THOROUGHLY PRIOR TO USE.

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

1. Read the owner's manual thoroughly. Failure to follow instructions could cause malfunction of the machine and result in death, serious bodily injury and/or property damage.
2. Know how to stop the machine and bleed pressure quickly. Be thoroughly familiar with the controls.
3. Stay alert — watch what you are doing.

! DANGER



KEEP WATER SPRAY AWAY FROM ELECTRICAL WIRING.

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

4. All installations must comply with local codes. Contact your electrician, plumber, utility company or the selling distributor for specific details.

! WARNING



EAR PROTECTION MUST BE WORN

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

! WARNING



USE PROTECTIVE EYE WEAR AND CLOTHING WHEN OPERATING THIS EQUIPMENT.

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

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

6. Keep operating area clear of all persons.

! WARNING



RISK OF EXPLOSION: OPERATE ONLY WHERE OPEN FLAME OR TORCH IS PERMITTED

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

WARNING: Risk of explosion — Operate only where open flame or torch is permitted.

! WARNING



RISK OF FIRE. DO NOT ADD FUEL WHEN OPERATING MACHINE.

WARNING: Risk of fire — Do not add fuel when the product is operating or still hot.

WARNING: Do not use gasoline crankcase draining or oil containing gasoline, solvents or alcohol. Doing so will result in fire and/or explosion.

WARNING: Risk of fire — Do not Spray flammable liquids.

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

Gasoline engines on mobile or portable equipment shall be refueled:

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

IMPORTANT SAFETY INFORMATION

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

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

8. When in use, do not place machine near flammable objects as the engine is hot.
9. Oil burning appliances shall be installed only in locations where combustible dusts and flammable gases or vapors are not present. Do not store or use gasoline near this machine.
10. Use No. 1 or No. 2 heating oil (ASTM D306) only. **NEVER** use gasoline in your fuel oil tank. Gasoline is more combustible than fuel oil and could result in a serious explosion. **NEVER** use crankcase or waste oil in your burner. Fuel unit malfunction could result from contamination.
11. Do not confuse gasoline and fuel oil tanks. Keep proper fuel in proper tank.



WARNING: Risk of injury. Hot surfaces can cause burns. Use only designated gripping areas of spray gun and wand. Do not place hands or feet on non-insulated areas of the pressure washer.

12. Transport/Repair with fuel tank EMPTY or with fuel shut-off valve OFF.



CAUTION: Hot discharge fluid. Do not touch or direct discharge stream at persons.

WARNING: This machine produces hot water and must have insulated components attached to protect the operator.

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



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

14. Never make adjustments on machine while in operation.

15. Be certain all quick coupler fittings are secured before using pressure washer.



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



WARNING: Protect machine from freezing.

16. To keep machine in best operating conditions, it is important you protect machine from freezing. Failure to protect machine from freezing could cause malfunction of the machine and result in death,

serious bodily injury, and/or property damage. Follow storage instructions specified in this manual.

17. Inlet water must be clean fresh water and no hotter than 90°F.



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

18. Avoid installing machines in small areas or near exhaust fans. Adequate oxygen is needed for combustion or dangerous carbon monoxide will result.

19. Manufacturer will not be liable for any changes made to our standard machines or any components not purchased from us.

20. The best insurance against an accident is precaution and knowledge of the machine.



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

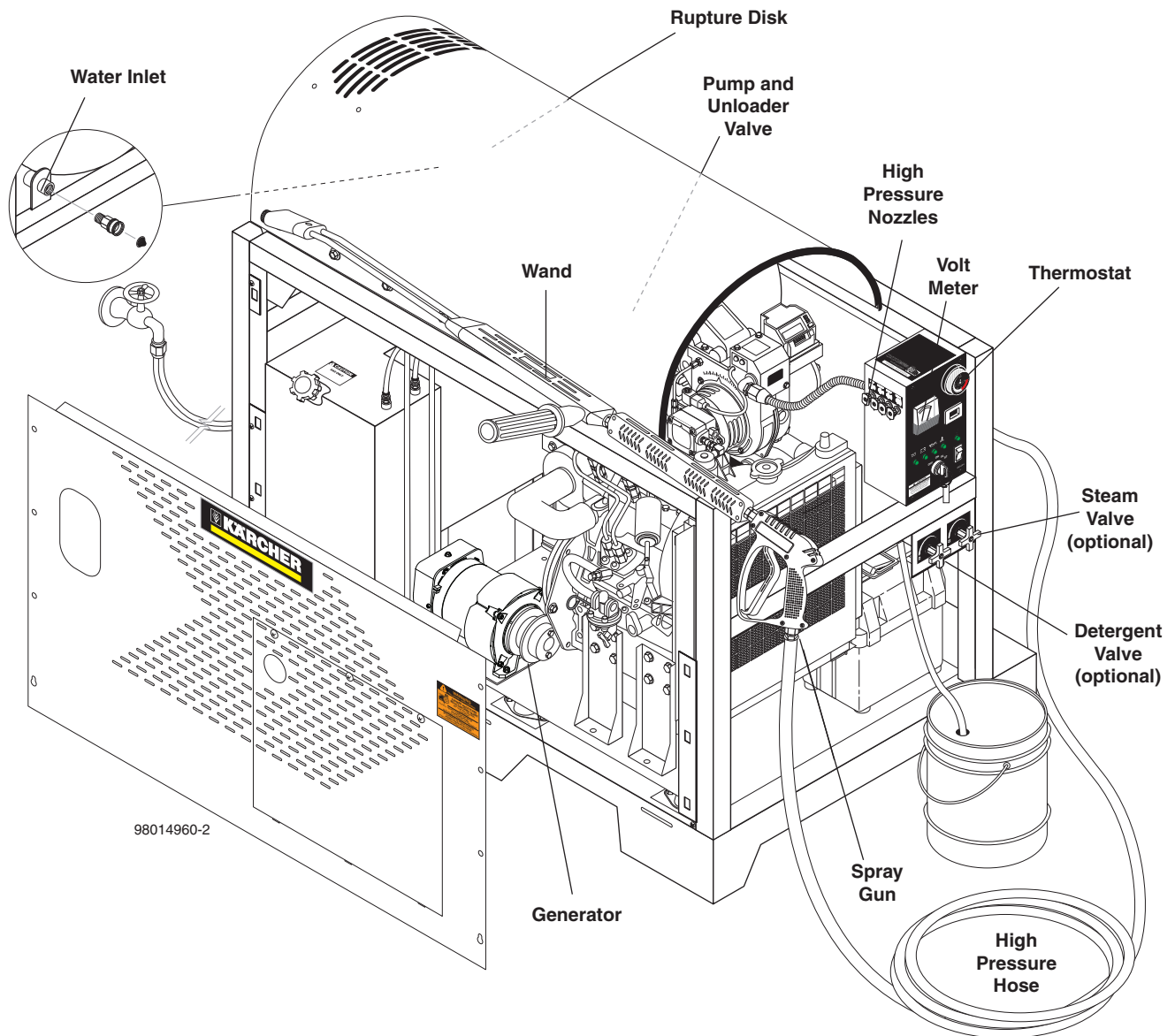
IMPORTANT SAFETY INFORMATION

21. Do not allow acids, caustic or abrasive fluids to pass through the pump.
22. Never run pump dry or leave spray gun closed longer than 1-2 minutes.
23. Machines with shut-off spray gun should not be operated with the spray gun in the off position for extensive periods of time as this may cause damage to the pump.
24. Protect discharge hose from vehicle traffic and sharp objects. Inspect condition of high pressure hose before using or bodily injury may result.
25. Before disconnecting discharge hose from water outlet, turn burner off and open spray gun to allow water to cool below 100° before stopping the machine. Then open the spray gun to relieve pressure. Failure to properly cool down or maintain the heating coil may result in a steam explosion.
26. Do not overreach or stand on unstable support. Keep good footing and balance at all times.
27. Do not operate this machine when fatigued or under the influence of alcohol, prescription medications, or drugs.
28. In oil burning models, use only kerosene, No. 1 home heating fuel, or diesel. If diesel is used, add a soot remover to every tankful.



Follow the maintenance instructions specified in the manual.

COMPONENT IDENTIFICATION



Pump — Delivers a specific gpm to the high pressure nozzle which develops pressure.

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

Detergent Valve — Allows you to siphon and mix detergents.

Wand — Must be connected to the spray gun.

High Pressure Hose — Connect one end to water pump high pressure discharge nipple and the other end to spray gun.

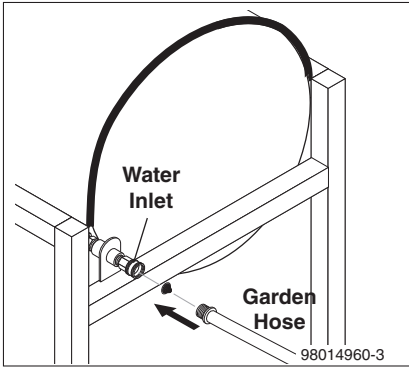
Rupture Disk — Secondary pressure release in the unlikely event the unloader valve fails.

Unloader Valve — Safety device which, when the spray gun closes, prevents over pressurization.

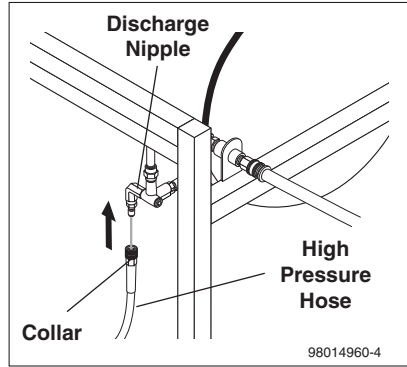
Generator — Provides 110V power to the burner assembly.

NOTE: If trigger on spray gun is released for more than 2 minutes, water will leak from the pump protector. Warm water will discharge from pump protector onto floor. This system prevents internal pump damage.

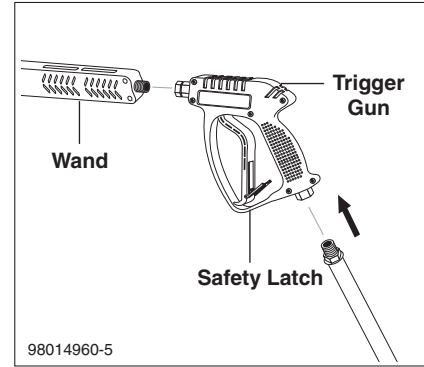
ASSEMBLY INSTRUCTIONS



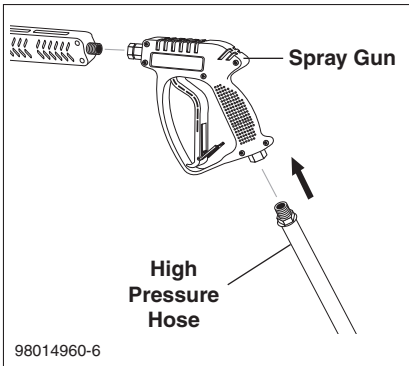
STEP 1: Attach a 5/8" water supply hose to inlet connector. Minimum flow should be 10 GPM depending on model of machine.



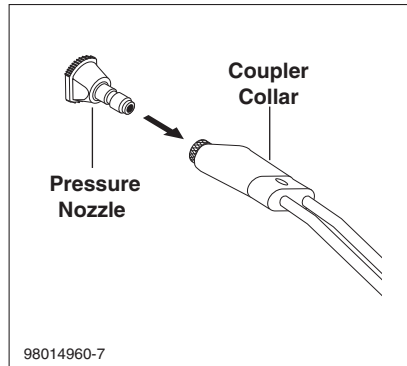
STEP 2: Attach high pressure hose to discharge nipple using quick coupler. Lock coupler securely by pulling back coupler collar, inserting onto discharge nipple and pushing collar forward until secure.



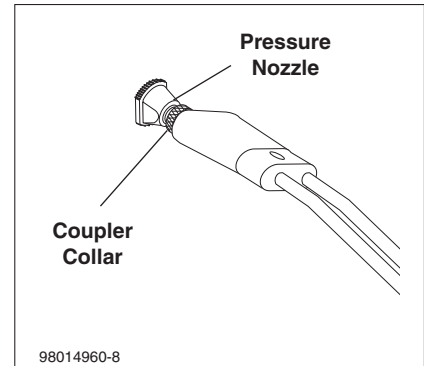
STEP 3: Attach variable pressure control wand to spray gun using teflon tape on threads to prevent leakage.



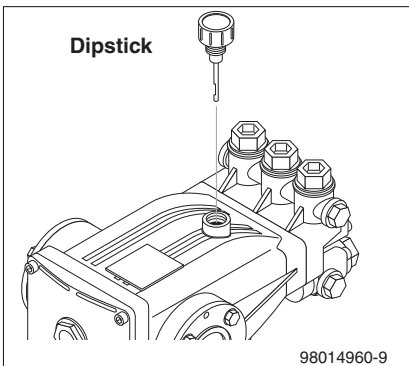
STEP 4: Attach the high pressure hose to the spray gun using teflon tape on hose threads.



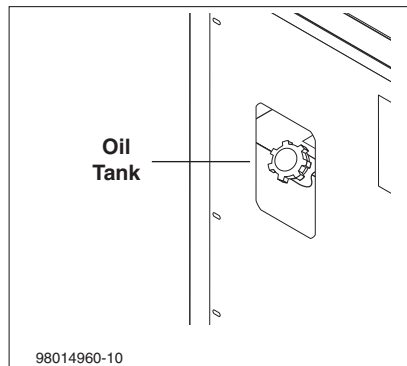
STEP 5: Before installing nozzle, turn on water supply and run machine allowing water to flush through the system until clear. Pull the spring-loaded collar of the wand coupler collar back to insert your choice of pressure nozzle. **CAUTION: Never replace nozzles without engaging the safety latch on the spray gun trigger.**



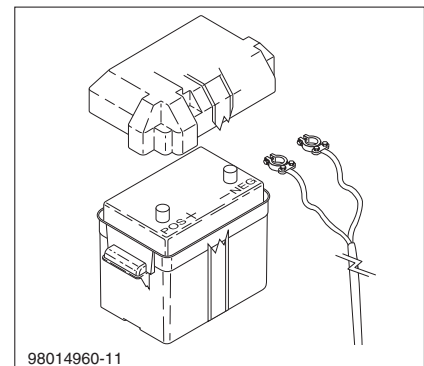
STEP 6: Release the coupler collar and push the nozzle until the collar clicks. Pull the nozzle to make sure it is seated properly.



STEP 7: Check oil level by using supplied dip-stick. Use SAE 30W non-detergent only.

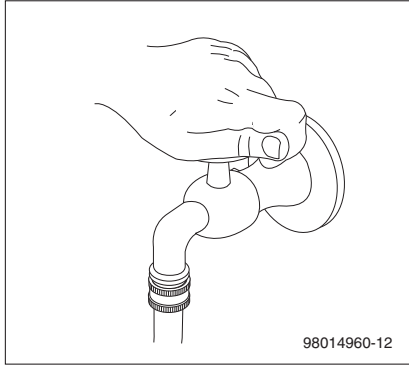


STEP 8: Fill fuel oil tank. Do not confuse gasoline and fuel oil tanks. Keep proper fuel in proper tank.

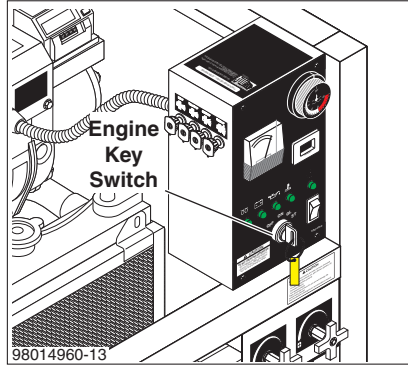


STEP 9: Install proper battery making sure that the red cable is attached to the positive terminal. Use a 12V group 24 style battery with 550 Cranking amp rating.

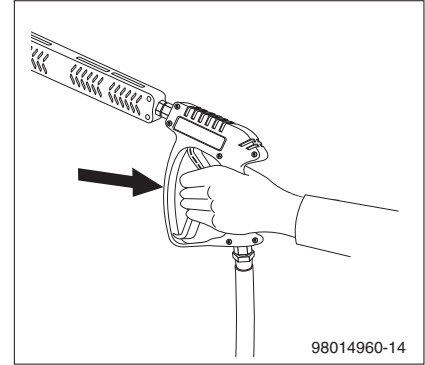
OPERATING INSTRUCTIONS



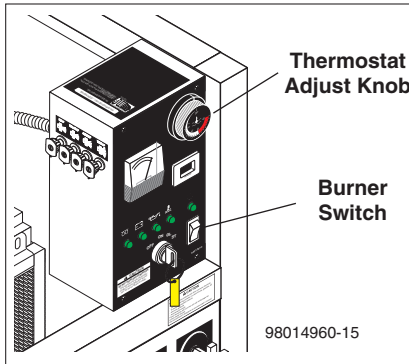
STEP 1: Read engine warning and operating instructions prior to turning on the water. Check for water leaks; tighten as needed.



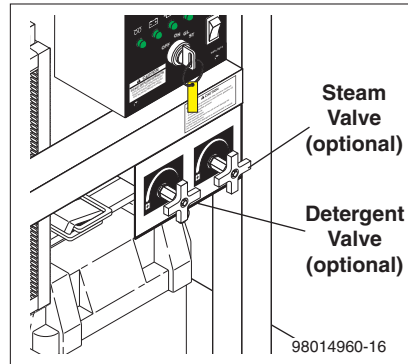
STEP 2: Read engine manual provided. The keyed ignition is located on the control panel. Simply turn key to first position. Glow plug light will illuminate. When light goes out, turn key to start (second) position.



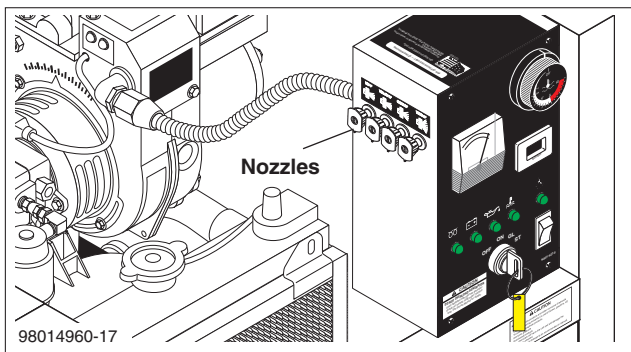
STEP 3: With the spray nozzle pointed away from you or anybody else, press the trigger on the spray gun to obtain pressurized cold water spray.



STEP 4: For hot water, turn the thermostat knob to 210° then push the burner switch to ON when a steady stream of water flows out of the spray gun. Burner will now light automatically. **NOTE:** Do not start machine with burner switch on.



STEP 5: For steam, open the steam valve counterclockwise. This lowers the pressure and raises the temperature.

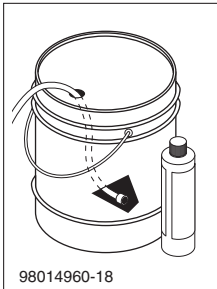


STEP 6: The four color-coded quick connect nozzles provide a wide array of spray widths from 0° to 45° and are easily accessible when placed in the convenient rubber nozzle holder, which is provided on the front of the machine. **NOTE:** For a more gentle rinse, select the white 40° or green 25° nozzle. To scour the surface, select the yellow 15° or red 0° nozzle.

DETERGENTS & GENERAL WASHING TECHNIQUES

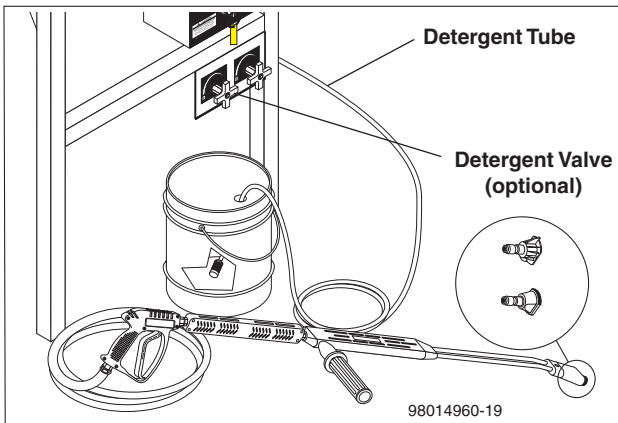


WARNING: Some detergents may be harmful if inhaled or ingested, causing severe nausea, fainting or poisoning. The harmful elements may cause property damage or severe injury.



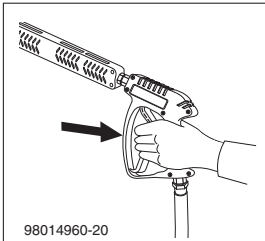
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STEP 1: Use detergent designed specifically for pressure washers. Household detergents could damage the pump. Prepare detergent solution as required by the manufacturer. Fill a container with pressure washer detergent. Place the filter end of detergent suction tube into the detergent container.



98014960-19

STEP 2: With the engine running, pull trigger to operate machine. Liquid detergent is drawn into the machine and mixed with water. Apply detergent to work area. Do not allow detergent to dry on surface.



98014960-20

IMPORTANT: You must flush the detergent after

each use by placing the suction tube into a bucket of clean water, open detergent valves then run the pressure washer for 1-2 minutes.

THERMAL PUMP PROTECTION

If you run your pressure washer for 3-5 minutes without pressing the trigger on the spray gun, circulating water in the pump can reach high temperatures. When the water reaches this temperature, the pump protector engages and cools the pump by discharging the warm water onto the ground. This thermal device prevents internal damage to the pump.

CLEANING TIPS

Pre-rinse cleaning surface with fresh water. Place detergent suction tube directly into cleaning solution and apply to surface at low pressure (for best results, limit your work area to sections approximately 6 feet square and always apply detergent from bottom to top). Allow detergent to remain on surface 1-3 minutes. Do not allow detergent to dry on surface. If surface appears to be drying, simply wet down surface with fresh water. If needed, use brush to remove stubborn dirt. Rinse at high pressure from top to bottom in an even sweeping motion keeping the spray nozzle approximately 1 foot from cleaning surface. Use overlapping strokes as you clean and rinse any surface. For best surface cleaning action spray at a slight angle.

Recommendations:

- Before cleaning any surface, an inconspicuous area should be cleaned to test spray pattern and distance for maximum cleaning results.
- If painted surfaces are peeling or chipping, use extreme caution as pressure washer may remove the loose paint from the surface.
- Keep the spray nozzle a safe distance from the surface you plan to clean. High pressure wash a small area, then check the surface for damage. If no damage is found, continue to pressure washing.

CAUTION - Never use:

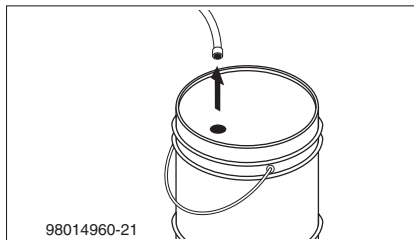
- Bleach, chlorine products and other corrosive chemicals
- Liquids containing solvents (i.e., paint thinner, gasoline, oils)
- Tri-sodium phosphate products
- Ammonia products
- Acid-based products

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

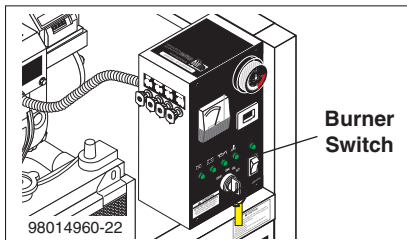
RINSING

It will take a few seconds for the detergent to clear. Apply safety latch to spray gun and close detergent valve. Select and install the desired high pressure nozzle.

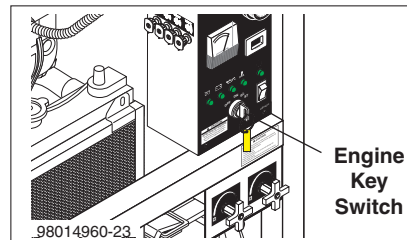
SHUTTING DOWN AND CLEAN-UP



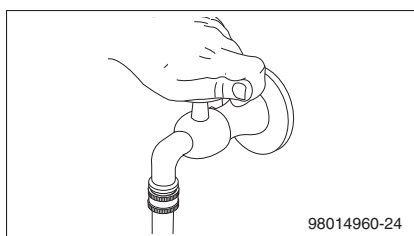
STEP 1: Remove detergent suction tube from container and insert into one gallon of fresh water. Open detergent valve, pull trigger on spray gun and siphon water for one minute.



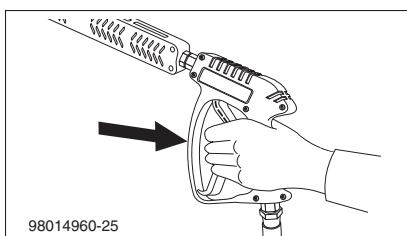
STEP 2: Turn burner switch off and continue spraying, allowing the water to cool to below 100°.



STEP 3: Turn engine key switch off.



STEP 4: Turn off water supply.



STEP 5: Squeeze trigger on spray gun to relieve remaining pressure.

STORAGE

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

1. Stop the pressure washer, squeeze spray gun trigger to release pressure.
2. Detach water supply hose and high pressure hose.
3. Turn on the machine for a few seconds, until remaining water exits. Turn engine off immediately.
4. Drain the fuel and oil from the engine.
5. Do not allow high pressure hose to become kinked.
6. Store the machine and accessories in a room which does not reach freezing temperatures.

CAUTION: Failure to follow the above directions will result in damage to your pressure washer.

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

1. Replenish engine oil to upper level.
2. Drain diesel from fuel tank, fuel line, fuel valve and carburetor.
3. Pour about one teaspoon of engine oil through the spark plug hole, pull the starter grip several times

and replace the plug. Then pull the starter grip slowly until you feel increased pressure which indicates the piston is on its compression stroke and leave it in that position. This closes both the intake and exhaust valves to prevent rusting of cylinder.

4. Cover the pressure washer and store in a clean, dry place that is well ventilated away from open flame or sparks. **NOTE:** The use of a fuel additive, such as STA-BIL®, or an equivalent, will minimize the formulation of fuel deposits during shortage. Such additives may be added to the gasoline in the fuel tank of the engine, or to the gasoline in a storage container.

After Extended Storage



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

Engine Maintenance

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

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
LOW OPERATING PRESSURE	Faulty pressure gauge	Install new gauge.
	Insufficient water supply	Use larger supply hose; clean filter at water inlet.
	Old, worn or incorrect spray nozzle	Match nozzle number to machine and/or replace with new nozzle.
	Belt slippage	Tighten or replace; use correct belt.
	Plumbing or hose leak	Check plumbing system for leaks. Re-tape leaks with teflon tape.
	Faulty or mis-adjusted unloader valve	Adjust unloader for proper pressure. Install repair kit when needed.
	Worn packing in pump	Install new packing kit.
	Fouled or dirty inlet or discharge valves in pump	Clean inlet and discharge valves.
	Worn inlet or discharge valves	Replace with valve kit.
	Obstruction in spray nozzle	Remove obstruction.
	Leaking pressure control valve	Rebuild or replace as needed.
	Slow engine RPM	Set engine speed at proper specifications.
	Pump sucking air	Check water supply and possibility of air seepage.
	Valves sticking	Check and clean or replace if necessary.
Unloader valve seat faulty	Check and replace if necessary.	
BURNER WILL NOT LIGHT	Little or no fuel	Fill tank with fuel.
	Improper fuel or water in fuel	Drain fuel tank and fill with proper fuel.
	Clogged fuel line	Clean or replace.
	Plugged fuel filter	Replace as needed.
	Mis-adjusted burner air bands	Readjust air bands for clean burn.
	Little or no fuel pressure from fuel pump	Increase fuel pressure to specification and/or replace fuel pump. Test with pressure gauge.
	Faulty burner transformer	Test transformer for proper arc between contacts. Replace as needed.
(continued on next page)	Disconnected or short in electrical wiring	All wire contacts should be clean and tight. No breaks in wire

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
BURNER WILL NOT LIGHT (continued from previous page)	Flex coupling slipping on fuel pump shaft or burner motor shaft	Replace if needed.
	On-Off switch defective	Check for electrical current reaching burner assembly with burner switch on.
	Heavy sooting on coil and burner can cause interruption of air flow and shorting of electrodes	Clean as required.
	Improper electrode setting	Check and reset according to diagram in Operator's Manual.
	Fuel not reaching combustion chamber	Check fuel pump for proper flow. Check solenoid flow switch on machines with spray gun control, for proper on-off fuel flow control.
	Clogged burner nozzle	Clean as required.
	Thermostat faulty or slow engine speed	Increase engine RPM to increase voltage.
	Flow switch malfunction	Remove, test for continuity and replace as needed.
FLUCTUATING PRESSURE	Flow solenoid malfunction	Replace if needed.
	Valves worn	Check and replace if necessary.
	Blockage in valve	Check and replace if necessary.
	Pump sucking air	Check water supply and air seepage at joints in suction line.
	Worn piston packing	Check and replace if necessary.
Engine Altitude	The engine is preset for operation at altitudes below 1000 feet above sea level. If operated at higher altitudes, it may be necessary to adjust the engine. Contact your local authorized engine sales and service center for details.	
MACHINE SMOKES WHILE BURNER UNIT IS RUNNING OR UNIT SMOKES AT COLD-START ONLY WHEN BURNER IS OFF	Improper fuel or water in fuel	Drain tank and replace contaminated fuel.
	Improper air adjustment	Readjust air bands on burner assembly.
	Fuel pressure is low <140 psi for burner	Adjust fuel pump pressure to specifications.
	Plugged or dirty burner nozzle	Replace nozzle Check parts breakdown for nozzle size.
	Faulty burner nozzle spray pattern	Replace nozzle Check parts breakdown for nozzle size
	Heavy accumulation of soot on coils and burner assembly	Remove coils and burner assembly, clean thoroughly Call local dealer.
	Misaligned electrode setting	Realign electrodes to specifications.
	Smoke stack has obstruction	Check for insulation blockage or other foreign objects.
	Low engine RPM	Increase RPM to correct specs. See serial plate.
Fuel Pressure is too high for clean burn (fuel PSI above >140 and below 200) and smokes when burner is off	Reduce fuel pressure PSI/Increase air band set for cleaner without max water heat loss	

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
LOW WATER TEMPERATURE	Improper fuel or water in fuel	Replace with clean and proper fuel.
	Low fuel pressure	Increase fuel pressure.
	Weak fuel pump	Check fuel pump pressure. Replace pump if needed.
	Fuel filter partially clogged	Replace as needed.
	Soot build-up on coils not allowing heat transfer	Clean coils.
	Improper burner nozzle	See specifications. (page 32)
WATER TEMPERATURE TOO HOT	Incoming water to machine warm or hot	Lower incoming water temperature.
	Fuel pump pressure too high	See specifications for proper fuel pressure.
	Fuel pump defective	Replace fuel pump.
	Detergent line sucking air	Tighten all clamps. Check detergent lines for holes
	Defective temperature switch	Replace.
	Incorrect fuel nozzle size	See specifications for proper fuel nozzle. (page 32)
	Insufficient water supplied	Check water G.P.M. to machine.
	Restricted water flow	Check nozzle for obstruction, proper size.
PUMP NOISY	Air in suction line	Check water supply and connections on suction line.
	Broken or weak inlet or discharge valve springs	Check and replace if necessary.
	Excessive matter in valves	Check and clean if necessary.
	Worn bearings	Check and replace if necessary.
PRESENCE OF WATER IN OIL	Oil seal worn	Check and replace if necessary.
	High humidity in air	Check and change oil twice as often.
WATER DRIPPING FROM UNDER PUMP	Piston packing worn	Check and replace if necessary.
	O-Ring plunger retainer worn	Check and replace if necessary.
	Cracked piston	Check and replace if necessary.
	Pump protector	Lower water supply pressure. Do not run with spray gun closed longer than 2 minutes.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
OIL DRIPPING	Oil seal worn	Check and replace if necessary.
EXCESSIVE VIBRATION IN DELIVERY LINE	Irregular functioning of the valves	Check and replace if necessary.
DETERGENT NOT DRAWING	Air leak	Tighten all clamps. Check detergent lines for holes.
	Restrictor in float tank is missing	Replace restrictor. Check for proper orifice in restrictor.
	Filter screen on detergent suction hose plugged	Clean or replace.
	Dried up detergent plugging metering valve	Disassemble and clean thoroughly
	High viscosity of detergent	Dilute detergent to specifications.
	Hole in detergent line(s)	Repair hole.
	Low detergent level	Add detergent, if needed.
PUMP RUNNING NORMALLY BUT PRESSURE LOW ON INSTALLATION	Pump sucking air	Check water supply and possibility of air seepage.
	Valves sticking	Check and clean or replace if necessary.
	Nozzle incorrectly sized	Check and replace if necessary (See serial plate for proper size).
	Unloader valve seat faulty	Check and replace if necessary.
	Worn piston packing	Check and replace if necessary.
BURNER MOTOR WILL NOT RUN	Fuel pump seized	Replace fuel pump.
	Burner fan loose or misaligned	Position correctly, tighten set screw.
	Defective control switch	Replace switch.
	Loose wire	Check and replace or tighten wiring.
	Defective burner motor	Replace motor.
RELIEF VALVE LEAKS WATER	Relief valve defective	Replace or repair.

MAINTENANCE & SERVICE

Check List:

1. Check to see that water pump is properly lubricated.
2. Follow winterizing instructions to prevent freeze damage to pump and coils.
3. Always neutralize and flush detergent from system after use.
4. If water is known to be high in mineral content, use a water softener on your water system, or de-scale as needed.
5. Do not allow acidic, caustic or abrasive fluids to be pumped through system.
6. Always use high grade quality cleaning products.
7. Never run pump dry for extended periods of time.
8. Use clean diesel. Clean or replace fuel filter every 300 hours or 6 months of operation. Avoid water contaminated fuel as it will damage the fuel pump.
9. If machine is operated with smoky or eye burning exhaust, coils will soot up, not letting water reach maximum operating temperature.
10. Never allow water to be sprayed on or near the engine or burner assembly or any electrical component.
11. Periodically delime coils as per instructions.
12. Check to see that engine is properly lubricated.

It is advisable, periodically, to visually inspect the burner. Check air inlet to make sure it is not clogged or blocked. Wipe off any oil spills and keep equipment clean and dry.

The flow of combustion and ventilating air to the burner must not be blocked or obstructed in any manner.

The area around the washer should be kept clean and free of combustible materials, gasoline and other flammable vapors and liquids.

Unloader Valves:

Unloader valves are preset and tested at the factory before shipping. Tampering with the factory setting may cause personal injury and/or property damage, and will void the manufacturers warranty.

Winterizing Procedure:

Damage due to freezing is not covered by warranty. Adhere to the following cold weather procedures whenever the washer must be stored or operated outdoors under freezing conditions.

During winter months, when temperatures drop below 32°F, protecting your machine against freezing is necessary. Store the machine in a heated room. If this is not possible then mix a 50/50 solution of anti-freeze and water in the float tank. Turn the engine on to siphon

the anti-freeze mixture through the machine. If compressed air is available, an air fitting can be screwed into the float tank by removing the float tank strainer and fitting. Then inject the compressed air. Water will be blown out of the machine when the trigger on the spray gun is opened.

High Limit Hot Water Thermostat:

For safety, each machine is equipped with a temperature sensitive high limit control switch. In the event that the water should exceed its operating temperature, the high limit control will turn the burner off until the water cools then automatically reset itself. The thermostat sensor is located on the discharge side of the heating coil. The thermostat control dial is located on the control panel.

Pumps:

Use only SAE 10W-40 non-detergent oil. Change oil after first 50 hours of use. Thereafter, change oil every three months or at 500 hour intervals. Oil level should be checked through use of dipstick found on top of pump, or the red dot visible through the oil gauge window. Oil should be maintained at that level.

Cleaning of Coils:

In alkaline water areas, lime deposits can accumulate rapidly inside the heating coil. This growth is increased by the extreme heat build up in the coil. The best preventative for liming conditions is to use high quality cleaning detergents. In areas where alkaline water is an extreme problem, periodic use of Deliming Powder (Part #8.718-911.0) will remove lime and other deposits before coil becomes plugged. (See Deliming instructions for use of Deliming Powder.)

Deliming Coils:

Periodic flushing of coils or optional float tank is recommended.

Step 1: Fill a container with 4 gallons of water, then add 1 lb. of deliming powder. Mix thoroughly. Pour mixture into float tank.

Step 2: Remove wand assembly from spray gun and put spray gun into float tank. Secure the trigger on the spray gun into the open position.

Step 3: Turn engine on, allowing solution to be pumped through coils back into the float tank. The solution should be allowed to circulate 2-4 hours or until the color changes.

Step 4: After circulating solution, flush the entire system with fresh water. Clean out float tank and then reinstall wand assembly to spray gun.

MAINTENANCE & SERVICE

Removal of Soot and Heating Coil:

In the heating process, fuel residue in the form of soot deposits may develop between the heating coil pipe and block air flow which will affect burner combustion. When soot has been detected on visual observation, the soot on the coil must be washed off after following the coil removal steps (See Coil Removal on page 17).

Rupture Disk:

If pressure from pump or thermal expansion should exceed safe limits, the rupture disk will burst allowing high pressure to be discharged through hose to ground. When disk ruptures it will need to be replaced.

The Rupture Disk should be replaced every two years.

Fuel:

Diesel fuel must be clean, fresh, meet fuel specifications and be sourced from a known and reputable supplier. Clean, fresh and properly specified diesel fuel will provide assurances of maximum engine performance and maximum fuel injection system longevity. The use of out-of-spec, dirty or questionable quality diesel fuel will result in engine performance and start ability problems as well as reductions in engine and fuel injection system life.

Use clean fuel oil that is not contaminated with water and debris. Replace fuel filter and drain tank every 100 hours of operation.

All burner combustion system designs are geared toward the use of commercial grade diesel fuels. As such, use of fuels other than those designated "DF", i.e. DF2 (No. 2 Diesel Fuel), will result in degradation of performance and/or reduction in component life. It is understood that applications in certain situations require the use of fuels other than No. 2 diesel fuel. See list of various fuels and comments pertaining to each.

Diesel engines are designed to operate on No. 2 diesel fuel. However, some geographical areas, change the diesel fuel supply depot to No. 1 diesel fuel in the winter months because of the col winter temperatures. No. 2 diesel fuel provides maximum viscosity and lubricity but can have "waxing" problems at lower temperatures. We expressly recommend the use of No. 2 diesel fuels when temperatures are at or above 14°F. We recommend that No. 1 diesel fuel be used when temperatures are at or below 14°F. The use of either EPA-high sulfur, off-highway diesel fuel or EPA-low sulfur, on-highway fuel for non-CARB certified engines is allowed. CARB certified engines must consume only EPA-low sulfur diesel fuels conforming to EPA 40 CFR 86-113-94.

We do not recommend the use of "heating oil", blended fuel/waste engine oil or low grade diesel fuel of any kind. The use of aviation fuels - JP4,

JP5 or JP8 must be approved on an application basis and is not recommended for broad range commercial applications.

Fuel Control System:

This machine utilizes a fuel solenoid valve located on the fuel pump to control the flow of fuel to the combustion chamber. The solenoid, which is normally closed, is activated by a flow switch when water flows through it. When the operator releases the trigger on the spray gun, the flow of water through the flow switch stops, turning off the electrical current to the fuel solenoid.

The solenoid then closes, shutting off the supply of fuel to the combustion chamber. Controlling the flow of fuel in this way gives an instantaneous burn-or-no-burn situation, thereby eliminating high and low water temperatures and the combustion smoke normally associated with machines incorporating a spray gun. Periodic inspection, to insure that the fuel solenoid valve functions properly, is recommended. This can be done by operating the machine and checking to see that the burner is not firing when the spray gun is in the OFF position.

Fuel Pressure Adjustment:

To adjust fuel pressure, First install a pressure gage into the port just after the pump fuel exit. Turn the adjusting screw (located at the regulator port) clockwise to increase, and counterclockwise to decrease. Do not exceed 200 psi or lower the pressure below 130 PSI, when checked at the post-pump pressure port.

The fuel pressure may need to be adjusted due to altitude. For every 500 ft altitude above sea level, the boiling point of water goes down 1 °F. At high altitude environments, this boiling point change may require the heat input to be lowered so the water input does not turn to steam earlier than at the factory settings and activate the pressure sensors and pressure relief equipment when the unit is operated and much higher altitudes from factory settings or local dealer site settings. Check with your dealer before making local site fuel pressure adjustments.

Also, as ambient temperature changes seasonally, the fuel temperature in the feed tank and air temperature inlet can impact fuel flow. In more extreme temperatures, this local-site adjustment may also require different fuel nozzles for fuel inlet temperatures that are at seasonal extremes (higher or lower) in locations where the temperature changes are beyond moderate temperatures of between 40°F and 90°F. Colder temperatures will make for a thicker flow and less fine a fuel spray while hotter temperatures will make for a thinner flow a more fine spray with the same nozzle. Consider alternate nozzle configurations from the

MAINTENANCE & SERVICE

baseline factory-supplied nozzle for operating in such-temperature extremes if performance is not meeting needs with air band and fuel pressure settings alone.

NOTE: When changing fuel pump, a bypass plug must be installed in return port or fuel pump will not prime.

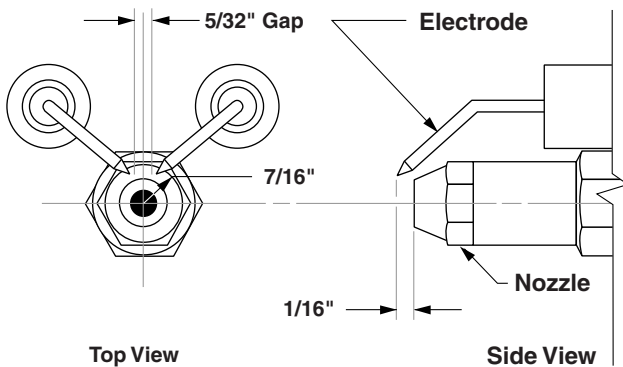
Burner Nozzle:

Keep the tip free of surface deposits by wiping it with a clean, solvent saturated cloth, being careful not to plug or enlarge the nozzle. For maximum efficiency, replace the nozzle each season.

Engine Oil:

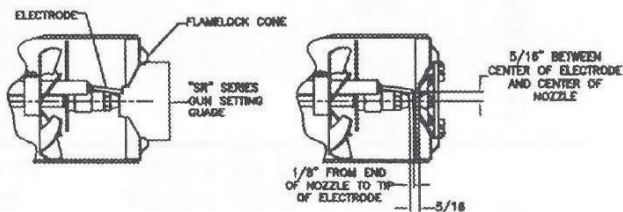
Kubota recommends engine oil 10W-30 API rating of CF or higher.

Electrodes Setting: 37/22 only



(See Illustration Below)

Gun Settings Instructions 30/22 only



**SR-Series Gage KNA Part
Number 8.717-379.0**

Air Adjustment:

37/22 Only:

The oil burner on this machine is preset for operation at altitudes below 500 feet. If operated at higher altitudes, it may be necessary to adjust the air band for a #1 or #2 smoke spot on the Bacharach scale.

To adjust, start machine and turn burner ON. Loosen two locking screws found on the air band and close air band until black smoke appears from burner exhaust vent. Note air band position. Next, slowly open the air band until white smoke just starts to appear. Turn air band halfway back to the previously noted position. Tighten locking screws.

For higher altitudes, the air band opening may need to be increased; for lower altitude, the air band may need to be decreased.

For higher humidity, the air band opening may need to be increased; for lower relative humidity, the air band may need to be decreased.

For higher ambient temperatures the air band opening may need to be increased; for lower ambient temperatures, the air band opening may need to be decreased.

Adjust to your operating location's environment as-needed for best smoke spot and performance compliant with local, state, and federal regulations.

Caution: If white smoke appears from burner exhaust vent during start-up or operation, discontinue use and read just air bands.

ATTENTION: Si de la fumée blanche s'échappe de l'évacuation du brûleur pendant le démarrage ou le fonctionnement, cesser d'utiliser et réajuster les bandes d'air.

If a flue is installed, have a professional serviceman adjust your burner for a #1 or #2 smoke spot on the Bacharach scale.

32/22 Only:

To adjust, start the machine and turn burner ON. Loosen two locking screws found in the air shutter openings (see illustration) and close air shutter until black smoke appears from burner exhaust vent. Note air band position. Next, slowly open the air shutter until white smoke just starts to appear. Turn air shutter halfway back to the black smoke position previously noted. Tighten locking screws. If the desired position cannot be obtained using only the air shutter, lock the air shutter in as close a position as can be obtained, then repeat the above procedure on the air band setting.

Coil Removal:

Removal of coil because of freeze breakage, or to clean soot from it can be done quickly and easily.

1. Disconnect hose from pump to inlet side of the coil.
2. Carefully disconnect the thermostat sensor making sure you do not crimp the capillary tube.
3. Remove burner assembly from combustion chamber.
4. Remove the 3-3/8" bolts from each side of coil and tank assembly (these bolts are used to fasten tank to chassis).
5. Remove fittings connected to the 1/2" pipe nipples from inlet and discharge sides of coil.
6. Remove top tank wrap, bend back insulation tabs and fold back blanket.
7. Remove bolts that hold down coil to bottom wrap.
8. Remove coil.
9. Replace or repair any insulation found to be torn or broken.
10. Remove insulation retainer plates.

Coil Reinstallation:

To reinstall new or cleaned coil, reverse steps 9 through 1.

PREVENTATIVE MAINTENANCE

MAINTENANCE SCHEDULE		
Engine Oil SAE 10W-30 or 15W-40	Inspect	Daily
	Change	Every 100 hours
	Filter	Every 200 hours
Air Cleaner	Inspect	Every 50 hours or monthly
	Clean	Every 3 months
Battery Level		Check monthly
Engine Fuel Filter		300 hours or 6 months
Clean Fuel Tank(s)		Annually
Replace Fuel Lines		Annually
Pump Oil (Non-detergent SAE10/40W)	Inspect	Oil level daily
	Change	After first 50 hours, then every 500 hours or annually
Clean Burner Filter		Monthly (More often if fuel quality is poor)
Remove Burner Soot		Annually
Burner Adjustment/Cleaning		Annually
Replace Burner Nozzle		Annually
Descale Coil		Annually (More often if required)
Replace High Pressure Nozzle		Every 6 months
Replace Quick Connects		Annually
Clean Water Screen/Filter		Weekly
Replace HP Hose		Annually
Rupture Disk		Replace every 2 years

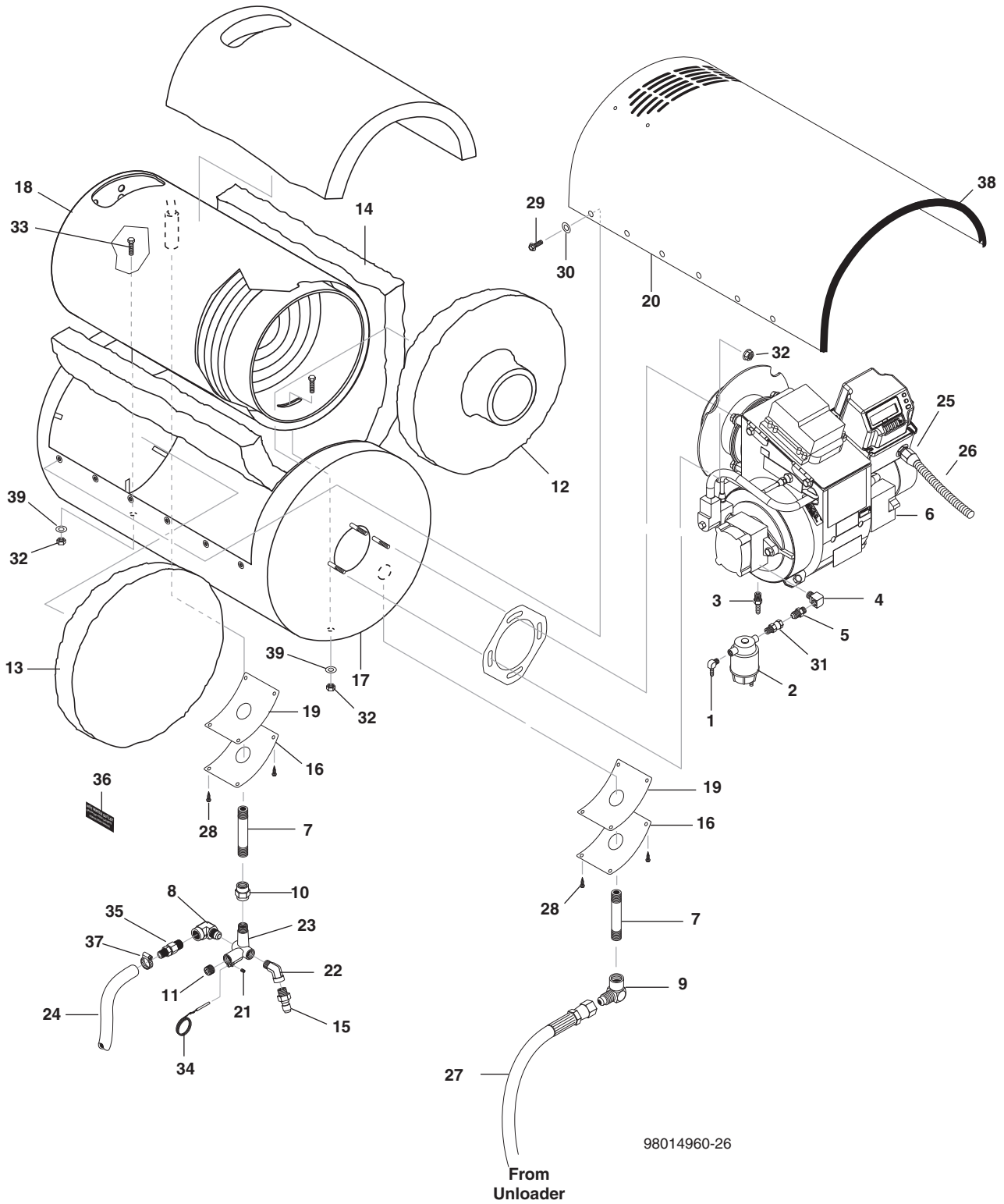
OIL CHANGE RECORD

Check pump oil level before first use of your new Power Washer. **Change** pump oil after first 50 hours and every 3 months or 500 hours thereafter. Use SAE 10/40W non-detergent.

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

NOTES

KARCHER KUBOTA SKID 30/22 BURNER ASSEMBLY EXPLODED VIEW



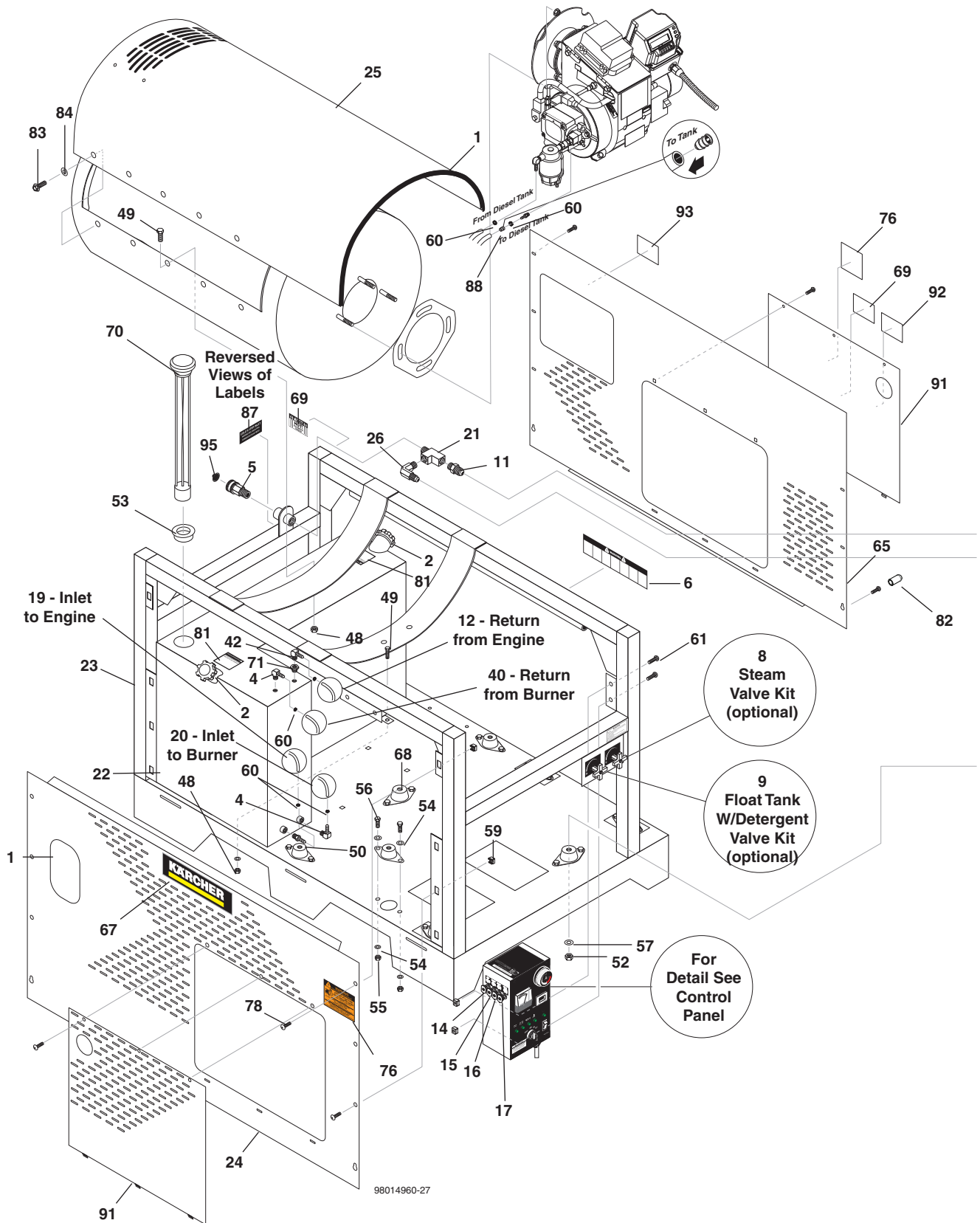
KARCHER KUBOTA SKID 30/22 BURNER ASSEMBLY PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.757-205.0	Hose Barb, 1/4" Barb X 1/4" M-NPTF, 90°	1
2	8.709-158.0	Filter, Fuel/H2O Separator	1
3	8.757-199.0	Hose Barb, 1/4" Barb x 1/4" M-NPTF, Brass	1
4	8.757-198.0	Elbow, 1/4" Street, Brass	1
5	8.757-674.0	Adapter Steel 1/4 JIC x 1/4 NPTF (M)	1
6	8.756-923.0	Burner, EH 1.75 120V 2T 120V S (30/22)	1
	8.755-049.0	▲ Nozzle, 4.00 80° B (30/22) w/100 psi Check Valve	1
7	8.757-405.0	Nipple Steel 1/2" X 2-1/2" SCH 80 W/SLNT	2
8	8.757-239.0	Elbow, 3/8" MPT X 1/2" FPT ST, Steel, W/Tag	1
9	8.757-363.0	Elbow, 90°, 3/4-16 JIC X 1/2 NPTF (F) 90°	1
10	8.706-141.0	Coupling, 1/2" Hex Pipe	1
11	8.757-241.0	Plug, 3/8" Allen Counter Sunk, W/Tag	1
12	8.717-474.0	Insulation, Tank Head 24" w/Hole	1
13	8.717-475.0	Insulation, Tank Head 24"	1
14	8.717-476.0	Insulation, 1 Cut Blanket	1
15	9.802-171.0	Nipple, 3/8" x 3/8",	

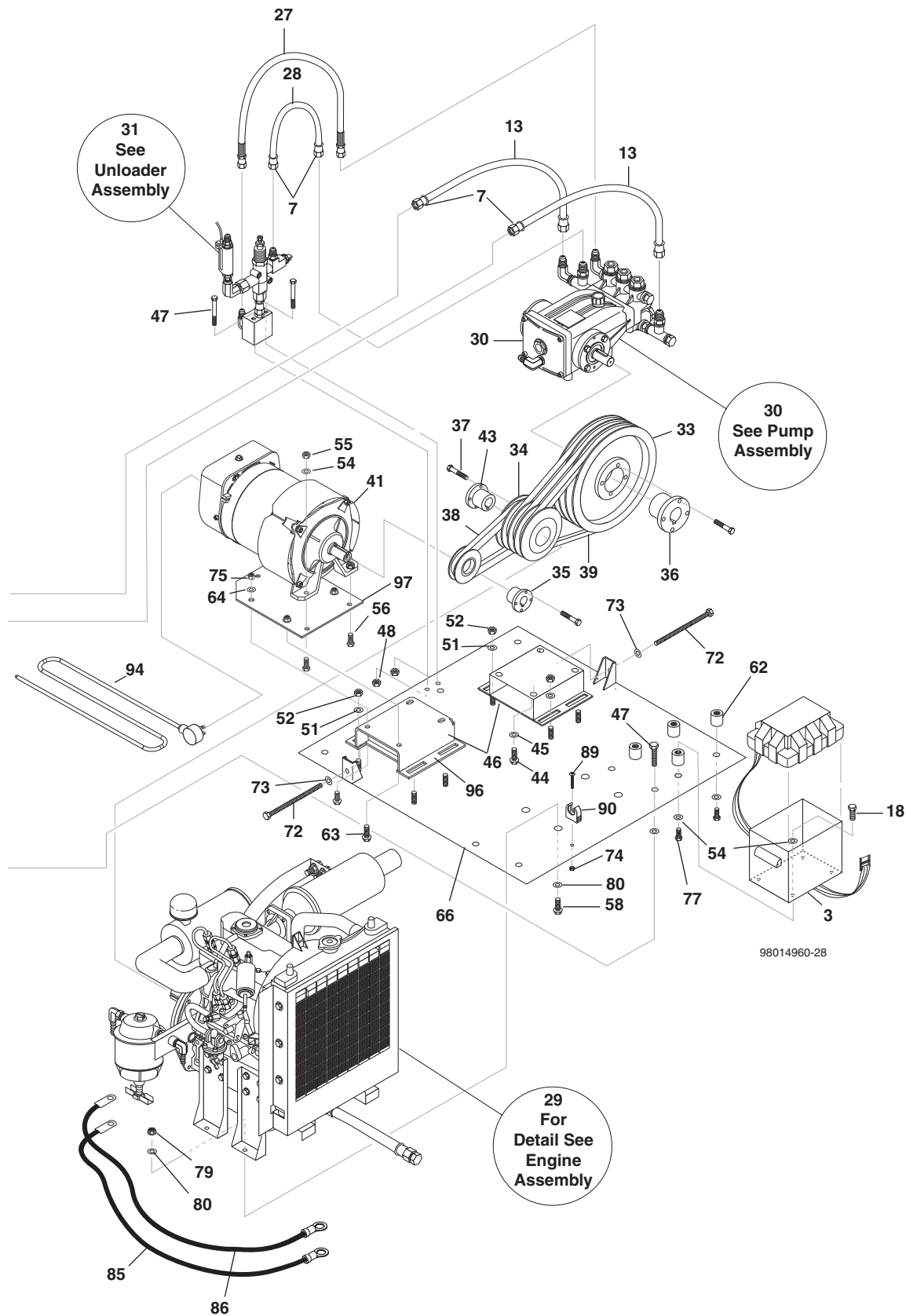
ITEM	PART NO.	DESCRIPTION	QTY
		NPT ST Male	1
16	8.912-220.0	Insulation Retainer Plate	2
17	8.912-449.0	Wrap, Bottom, 24"	1
18	8.912-736.0	Assembly, Coil SLT Skid	1
19	8.933-009.0	Gasket, Burner Plate	2
20	8.912-467.0	Top Wrap	1
21	9.196-012.0	Screw, 10-24 x 1/4"	1
22	8.757-551.0	Elbow Street Steel 3/8" 45°	1
23	8.757-240.0	Manifold Coil Outlet Discharge, W/Tag	1
24	9.802-260.0	Hose, Push-On 5/8"	33"
25	9.802-517.0	Connector, Conduit 90°	1
26	8.716-011.0	Conduit	19"
27	8.918-225.0	Hose, 1/2" x 28" 2 Wire (30/22)	1
28	9.802-797.0	Screw, #10 x 1/2"	8
29	9.803-541.0	Screw, 5/16"-18 x 1/2" CS SOC, BN, NC, ZN	10
30	9.802-776.0	Washer, 5/16" Flat	10
31	8.757-673.0	Adapter Swivel Steel 1/4 JIC x 1/4 NPTF(M)	1
32	9.802-781.0	Nut, 3/8" NC, Whiz Loc	5
33	9.802-768.0	Screw, 3/8 x 1-1/4, Whiz	2
34	8.750-095.0	Thermostat, 120C/240°F	1
35	8.707-381.0	Rupture Disc Assy, 8500#	1
36	8.758-334.0	Label, Hot Water Outlet	1
37	9.802-201.0	Clamp, Screw, 9/16"W, 3/8-7/8"D, SS	1
38	9.802-071.0	Trim, Black	36"
39	9.802-811.0	Washer, 3/8" x 1-1/2"	2

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KARCHER KUBOTA SKID 30/22 EXPLODED VIEW



KARCHER KUBOTA SKID 30/22 EXPLODED VIEW



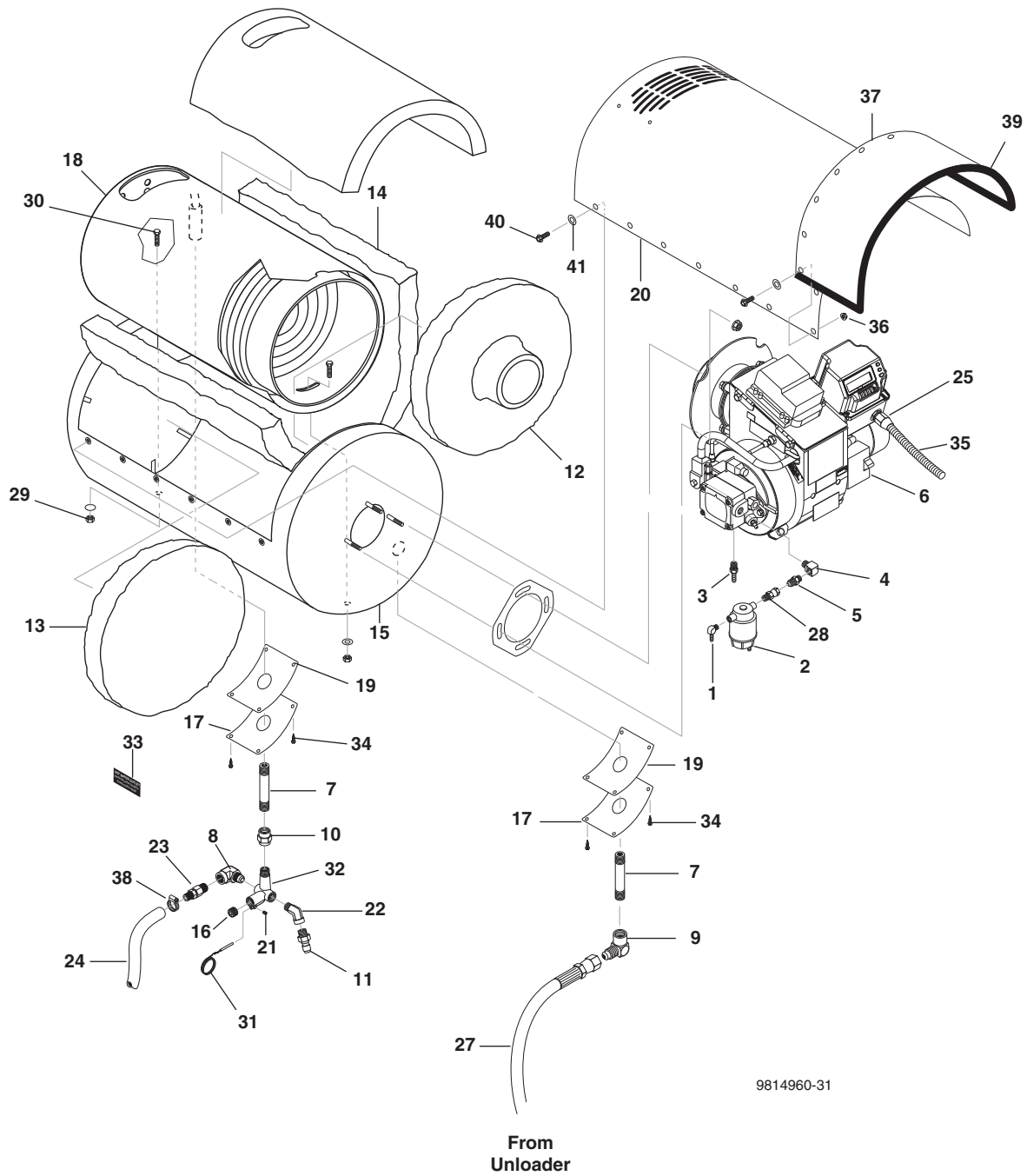
KARCHER KUBOTA SKID 30/22 PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-071.0	Trim, 750 B2 X 1/16", Black 48"		37		Bushing, See Specifications Pages 40-41	
2	9.802-082.0	Cap, Fuel	2	38		Belt, See Specifications Pages 40-41	
3	8.706-600.0	Battery Box, Large	1	39		Belt, See Specifications Pages 40-41	
4	8.757-205.0	Hose Barb, 1/4" Barb x 1/4" M-NPTF, 90°	2	40	9.802-254.0	Hose, 1/4" Push-On, Fuel Line	74"
5	8.757-203.0	Swivel, 1/2" M-NPTF x 3/4" GHF	1	41	8.757-639.0	TB2400 Generator	1
6	8.758-470.0	Label, Warning Pictorial Small	1	42	8.757-721.0	Hose Barb 90° Brass 3/16 x 1/8 NPTF M	1
7	9.802-152.0	Swivel, 3/4" SAE Female, Push-On	7	43		Bushing, See Specifications	
8	8.920-977.0	Kit, Steam		44	8.751-870.0	Screw, 10mm x 25mm	17
9	8.920-751.0	Kit, Float Tank w/Detergent		45	8.718-961.0	Washer, M10 Split Ring	16
10	8.709-069.0	▲ Clamp, Screw #4	1	46	8.920-979.0	Wlmt, Diesel Pump Gen	2
11	8.757-194.0	Adapter, 3/4" 45° SAE x 1/2" M-NPTF, Brass	1	47	9.802-730.0	Bolt, 3/8" x 2-1/2"	2
12	9.802-255.0	▲ Hose, 3/16" Push-On, Fuel Line	62"	48	9.802-781.0	Nut, 3/8" Whiz Loc	20
13	9.802-261.0	Hose, 3/4" Push-On	6 ft.	49	9.802-767.0	Screw, 3/8" x 3/4" HH NC, Whiz	10
14		Nozzle, See Specifications Pages 32-33		50	8.757-199.0	Hose Barb, 1/4" Barb x 1/4" M-NPTF, Brass	8
15		Nozzle, See Specifications Pages 32-33		51	9.802-099.0	Washer, Snubbing 3/8	9
16		Nozzle, See Specifications Pages 32-33		52	9.802-779.0	Nut, 3/8" ESNA, NC	24
17		Nozzle, See Specifications Pages 32-33		53	9.803-604.0	Sleeve, Fuel Gauge	1
18	9.803-541.0	Screw, 5/16 x 1/2"	4	54	8.718-980.0	Washer, 5/16" Flat, SAE	41
19	9.802-254.0	Hose, 1/4" Push-On Fuel Line	62"	55	9.802-776.0	Nut, 5/16" ESNA, NC	20
20	9.802-254.0	Hose, 1/4" Push-On, Fuel Line	74"	56	9.802-710.0	Bolt, 5/16" x 1", NC HH	21
21	8.757-257.0	Tee, Street 1/2"	1	57	9.802-807.0	Washer, 3/8" SAE Flat Zinc	26
22	8.912-485.0	Assy, Fuel Tank, Mild Steel	1	58	8.751-063.0	Bolt, 7/16" x 1 3/4"	4
23	8.920-992.0	Assembly, SLT Diesel Frame	1	59	8.753-255.0	Nut, Extruded U-Nut	18
24	8.920-994.0	Panel, SLT Left Diesel Cover	1	60	8.709-069.0	Clamp, Screw, 5/16"D, 1/4-5/8"D, SS	6
25	8.912-467.0	Wrap, Top, SS, SLT	1	61	9.802-754.0	Screw, 1/4" x 1/2", HH NC, Whiz Loc	4
26	8.757-202.0	Elbow, 3/4" 45° SAE X 1/2" M-NPTF, Brass	1	62	9.803-532.0	Isolater, 5/16"	4
27	8.918-227.0	Hose, 1/2" x 36", 2 Wire, Pressure Loop (All)	1	63	9.802-720.0	Bolt, 3/8" x 1", NC HH	4
28	9.802-261.0	Hose, 3/4" Push-On	24"	64	9.802-807.0	Washer, 3/8", SAE, Flat Zinc	4
29		Engine, See Specifications Page 36		65	8.920-995.0	Panel, Right Side Kubota, SLT	1
30		Pump Assy, See Page 34		66	8.920-841.0	Wlmt, Power Platform Kubota, SLT/SLX	1
31		Unloader, Assy See Page 35		67	8.758-364.0	Label, Karcher Stripe 17" x 3.875"	1
32		Pulley, See Specifications Pages 40-41		68	8.706-505.0	Isolator, Vibration Mount, 150 Lb.	8
33		Pulley, See Specifications Pages 40-41		69	8.758-328.0	Label, "Hot/Caliente" W/Arrows	3
34		Pulley, See Specifications Pages 40-41		70	8.750-574.0	Gauge, Fuel Level 19"	1
35		Bushing, See Specifications Pages 40-41		71	8.757-720.0	Bushing Brass 1/4" x 1/8" NPTF	1
36		Bushing, See Specifications Pages 40-41					

KARCHER KUBOTA SKID 30/22 PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
72	9.803-845.0	Bolt, 1/2" x 5", NC	2
73	9.802-800.0	Washer, 1/2" Flat	2
74	9.802-785.0	Nut, 8/32"	1
75	9.802-779.0	Nut, 3/8", ESNA, NC	4
76	8.758-329.0	Label, Warning Exposed Pulleys	2
77	9.802-776.0	Nut, 5/16	2
78	8.726-103.0	Screw, 1/4" x 1/2" Whiz	24
79	8.725-319.0	Nut, 7/16" ESNA	41
80	8.718-988.0	Washer, 7/16"	4
81	8.758-341.0	Label, Diesel Black On Yellow	2
82	8.713-265.0	Cap Vynyl Black 1/4" diam x 3/4" L	
83	9.803-541.0	Screw, 5/16"-18 x 1/2" CS SOC, BN, NC, ZN	10
84	8.718-980.0	Washer, 5/16" Flat	10
85	8.716-481.0	Cable, Battery, 29" Black, 4GA	1
86	9.802-503.0	Cable, Battery, Red	1
87	8.758-333.0	Label, Cold Water Inlet	1
88	8.754-911.0	Check Valve, 1 Way, 1/4" Barb	1
89	8.718-937.0	Screw, #8 x 3/4" Phillips	1
90	9.802-203.0	Clamp, 1/2" Ro-Clip	1
91	8.920-794.0	Panel, Access SLT/SLX Kubota	2
92	8.758-361.0	Landa Skid Operating Instructions	1
93	8.758-334.0	Label, Hot Water Outlet	1
94	8.752-150.0	Cord, Molded, 14/3, SJEOW, 6 ft.	1
95	9.804-016.0	Filter Screen Washer, Garden Hose / 30 Mesh	1
	8.757-192.0	▲ Plug, 1/4" NPTF Counter Sunk Brass (Fuel Tank)	1
96	8.925-544.0	Generator Rail	1
97	8.925-542.0	Adapter Plate TB2400 Mild Steel PGHW	1
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KARCHER KUBOTA SKID 37/22 BURNER ASSEMBLY EXPLODED VIEW



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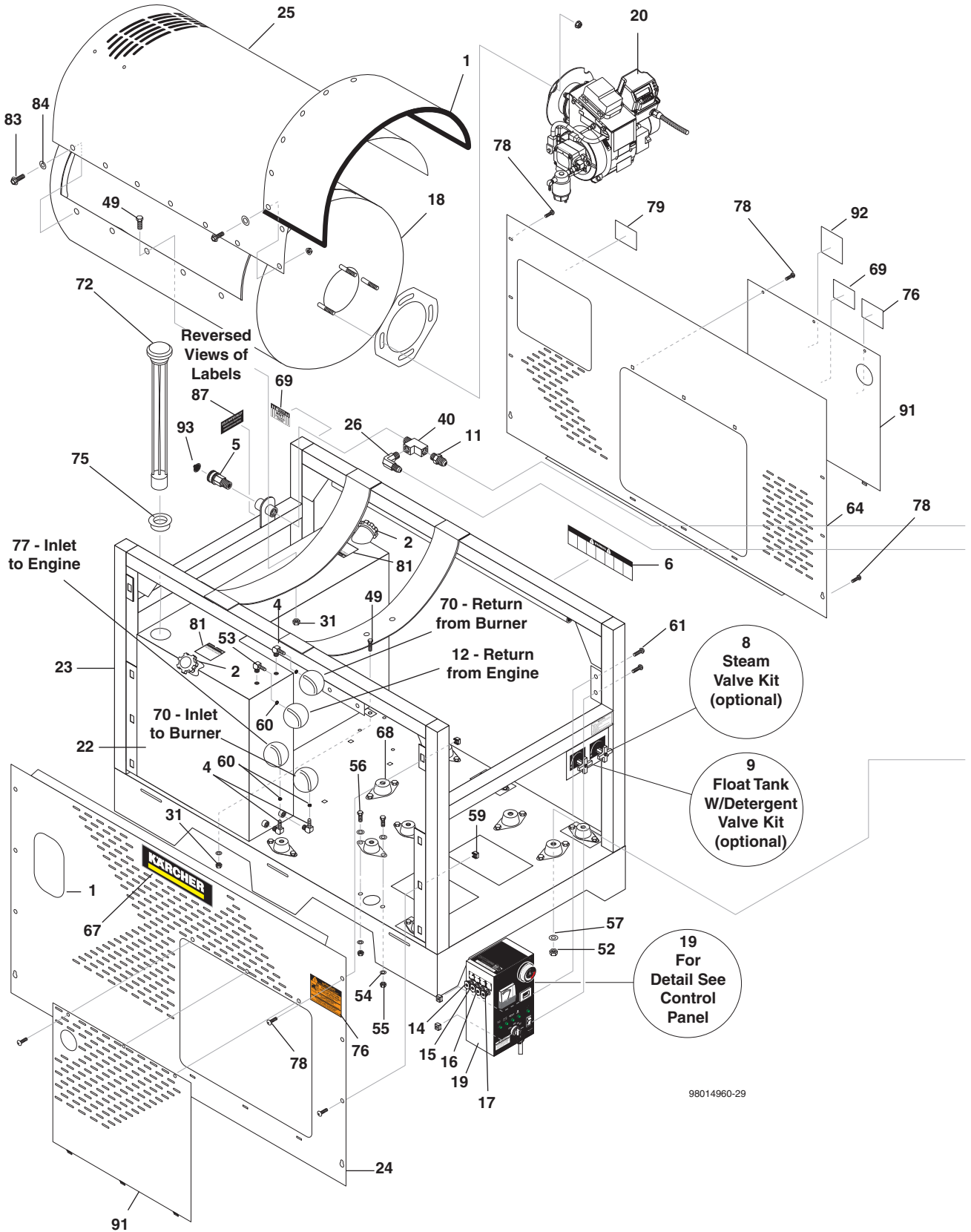
KARCHER KUBOTA SKID 37/22 BURNER ASSEMBLY EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.757-205.0	Hose Barb, 1/4" Barb x 1/4" M-NPTF, 90°	1
2	8.725-306.0	Fuel Filter Separator Unit	1
3	8.757-199.0	Hose Barb, 1/4" Barb x 1/4" M-NPTF, Brass	1
4	8.757-198.0	Elbow, 1/4" Street, Brass	1
5	8.757-674.0	Adapter Steel 1/4 JIC x 1/4 NPTF (M)	1
6	8.717-102.0 8.712-367.0	Burner, CF800, 120V, ▲ Nozzle, 4.50 80° B (37/22)	1 1
7	8.757-231.0	Nipple, 1/2" X 3", Tagged	2
8	8.757-239.0	Elbow, 3/8" MPT x 1/2" FPT ST, Steel, W/Tag	1
9	8.757-363.0	Elbow, 90°, 3/4-16 JIC X 1/2 NPTF (F) 90°	1
10	8.706-141.0	Coupling, 1/2" Hex Pipe	1
11	9.802-171.0	Nipple, 3/8" x 3/8" NPT ST Male	1
12	8.717-477.0	Insulation, Tank Head 30" w/Hole	1
13	8.717-478.0	Insulation, Tank Head 30"	1
14	8.717-479.0	Insulation, 1 Cut Blanket	1
15	8.911-234.0	Wrap, Bottom Assy.	1
16	8.757-241.0	Plug, 3/8" Allen Counter Sunk, W/Tag	1
17	8.912-220.0	Insulation Retainer Plate	2
18	8.912-250.0	Coil, SLX Large SCH 80	1
19	8.933-009.0	Gasket, Burner Plate	2
20	8.911-236.0	Top Wrap, 16 Ga, 304 S.S., #4 Brush	1
21	9.196-012.0	Screw, 10-24 x 1/4"	1
22	8.757-551.0	Elbow Street Steel 3/8" 45°	1
23	8.707-381.0	Rupture Disc Assy, 8500#	1
24	9.802-260.0	Hose, Push-On 5/8"	33"

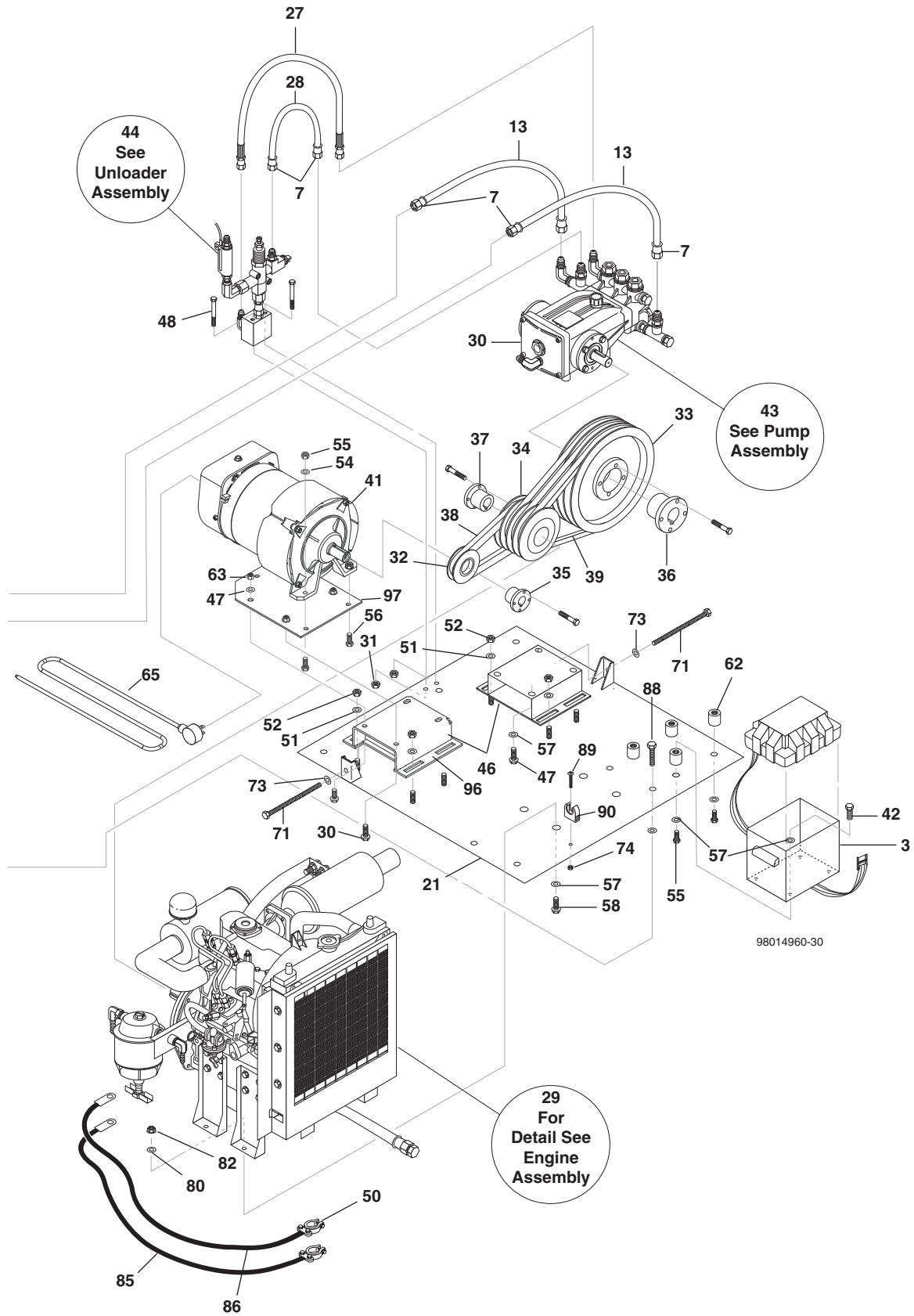
ITEM	PART NO.	DESCRIPTION	QTY
25	9.802-517.0	Connector, 1/2" L/T, 90°	1
26	8.716-011.0	▲ Conduit, Flexo 1/2" Black	27"
27	8.918-227.0	Hose, 1/2" x 36", 2 Wire	1
28	8.757-673.0	Adapter Swivel Steel 1/4 JIC x 1/4 NPTF (M)	1
29	9.802-781.0	Nut, 3/8" NC	2
30	9.802-768.0	Screw, 3/8 x 11/4	1
31	8.750-095.0	Thermostat	1
32	8.757-240.0	Manifold, Coil Outlet Discharge, W/Tag	1
33	8.758-334.0	Label, Hot Water Outlet	1
34	9.802-797.0	Screw, #10 x 1/2" Hex Head, Tek	8
35	9.802-448.0	Conduit, Tight Flex	11"
36	9.802-778.0	Nut, 5/16" Whiz Loc	9
37	8.911-237.0	Extension, Top Wrap, 16 Ga	1
38	9.802-201.0	Clamp, Screw, 9/16"W, 3/8-7/8"D, SS	1
39	9.802-071.0	Trim, Black	48"
40	9.803-541.0	Screw, 5/16" x 1/2"	16
41	9.802-776.0	Washer, 5/16"	16

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KARCHER KUBOTA SKID 37/22 EXPLODED VIEW



KARCHER KUBOTA SKID 37/22 EXPLODED VIEW



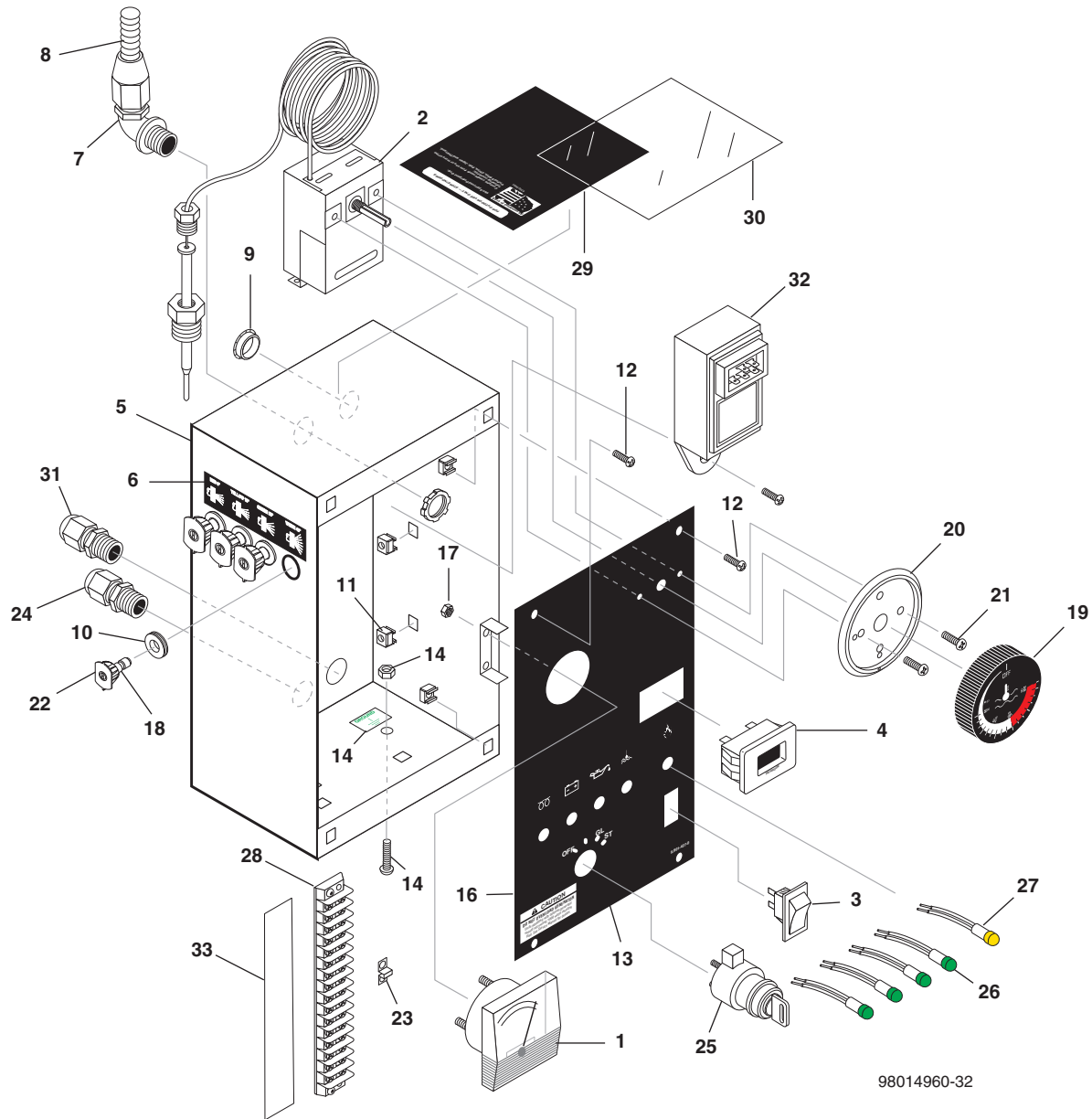
KARCHER KUBOTA SKID 37/22 EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-071.0	Trim, 750 B2 X 1/16", Black	48"	39		Belt, See Specifications Pages 40-41	
2	9.802-082.0	Cap, 18 Fuel	2	40	8.757-257.0	Tee, Street 1/2"	1
3	8.706-600.0	Battery Box, Large	1	41	8.757-639.0	TB2400 Generator	1
4	8.757-204.0	Hose Barb, 1/4" Barb X 1/8" M-NPTF, 90°	3	42	9.803-541.0	Screw, 5/16 x 1/2"	2
5	8.757-203.0	Swivel, 1/2" M-NPTF x 3/4" GHF	1	43		Pump Assy, See Page 34	
6	8.758-481.0	Label, Warning Pictorial	1	44		Unloader, Assy See Page 35	
7	9.802-152.0	Swivel, 3/4" SAE Female, Push-On	7	45	8.751-870.0	Washer, 3/8"	16
8	8.920-977.0	Kit, Steam		46	8.920-979.0	Wlmt, Diesel. Pump Gen	1
9	8.920-751.0	Kit, Float Tank w/Detergent		47	9.802-807.0	Washer, 3/8", SAE, Flat Zinc	4
10	8.709-069.0	▲ Clamp, Screw #4	6	48	9.802-730.0	Bolt, 3/8" x 2-1/2"	2
11	8.757-194.0	Adapter, 3/4" 45° SAE x 1/2" M-NPTF, Brass	1	49	9.802-767.0	Screw, 3/8" x 3/4" HH NC, Whiz	14
12	9.802-255.0	▲ Hose, 3/16" x 55" Push-On, Fuel Line	1	50	8.716-608.0	Terminal, Battery Post	1
13	9.802-261.0	Hose, 3/4" Push-On	6 ft.	51	9.802-099.0	Washer, Snubbing	9
14		Nozzle, See Specifications Pages 32-33		52	9.802-779.0	Nut, 3/8" ESNA, NC	24
15		Nozzle, See Specifications Pages 32-33		53	8.757-721.0	Hose Barb 90° Brass 3/16 x 1/8 NPTF M	1
16		Nozzle, See Specifications Pages 32-33		54	8.718-980.0	Washer, 5/16" Flat, SAE	41
17		Nozzle, See Specifications Pages 32-33		55	9.802-776.0	Nut, 5/16" ESNA, NC	20
18	8.906-164.0	Coil Assy, SLX	1	56	9.802-710.0	Bolt, 5/16" x 1", NC HH	21
19	8.906-444.0	Control Panel See Detail Pages 32-33	1	57	9.802-807.0	Washer, 3/8" SAE, Flat	26
20	8.717-102.0	Burner Assy, Becket	1	58	9.802-725.0	Bolt, 3/8" x 1-1/2", HH NC GRD 8	4
21	8.920-841.0	Wlmt, Power Platform Kubota, SLT/SLX	1	59	8.753-255.0	Nut, Cage, 1/4" x U-Nut	22
22	8.912-481.0	Assy, Fuel Tank, Mild Steel	1	60	6.390-126.0	Clamp, Hose, .46-, .54 ST	6
23	8.920-991.0	Assembly, Diesel Frame	1	61	9.802-754.0	Screw, 1/4" x 1/2", HH NC, Whiz Loc	4
24	8.920-993.0	Panel, Diesel Cover	1	62	9.803-532.0	Isolater, 5/16"	4
25	8.911-236.0	Wrap, Top, SS	1	63	9.802-779.0	Nut, 3/8", ESNA, NC	4
26	8.757-202.0	Elbow, 3/4" 45° SAE X 1/2" M-NPTF, Brass	1	64	8.920-793.0	Panel, Right Side Kubota, SLX	1
27	8.918-227.0	Hose, 1/2" x 35", 2 Wire, Pressure Loop	1	65	8.752-150.0	Cord, Molded, 14/3, SJEOW, 6 ft.	1
28	9.802-261.0	Hose, 3/4" Push-On	24"	66	9.802-710.0	Bolt, 5/16" x 1", NC HH	3
29		Engine, See Specifications Page 36	1	67	8.758-364.0	Label, Karcher Stripe 17" x 3.875"	1
30	9.802-720.0	Bolt, 3/8" x 1", NC HH	4	68	8.706-505.0	Isolator, Vibration Mount, 150 Lb.	8
31	9.802-781.0	Nut, 3/8" Whiz-Loc	12	69	8.758-328.0	Label, "Hot/Caliente" W/Arrows	3
32		Pulley, See Specifications Pages 40-41		70	9.802-254.0	Hose, 1/4" x 76" Push-On, Fuel Line	2
33		Pulley, See Specifications Pages 40-41		71	9.803-845.0	Bolt, 1/2" x 5", NC HH Tap	2
34		Pulley, See Specifications Pages 40-41		72	8.750-574.0	Gauges, Fuel Level 19"	1
35		Bushing, See Specifications Pages 40-41		73	9.802-800.0	Washer, 1/2" Flat	2
36		Bushing, See Specifications Pages 40-41		74	9.802-785.0	Nut, 8/32"	1
37		Bushing, See Specifications Pages 40-41		75	9.803-604.0	Sleeve, Fuel Gauge	1
38		Belt, See Specifications Pages 40-41					

KARCHER KUBOTA SKID 37/22 EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
76	8.758-329.0	Label, Warning Exposed Pulleys	2
77	9.802-254.0	Fuel Line, 1/4"	54"
78	8.726-103.0	Screw, 1/4" x 5/8" Whiz	24
79	8.758-334.0	Label, Hot Water Outlet	1
80	8.718-988.0	Washer, 7/16"	4
81	8.758-341.0	Label, Diesel Black On Yellow	2
82	8.725-319.0	Nut, 7/16" ESNA	4
83	9.803-541.0	Screw, 5/16"-18 x1/2" CS SOC, BN, NC, ZN	10
84	8.718-980.0	Washer, 5/16" Flat	10
85	8.716-481.0	Cable, Battery, 29" Black, 4GA	1
86	9.802-503.0	Cable, Battery, Red	1
87	8.758-333.0	Label, Cold Water Inlet	1
88	9.802-730.0	Bolt, 3/8" x 2-1/2"	8
89	8.718-937.0	Screw, #8 x 3/4" Phillips	1
90	9.802-203.0	Clamp, 1/2" Ro-Clip	1
91	8.920-794.0	Panel, Access, SLT/SLX Kubota	2
92	8.758-361.0	Label, Landa Skid Operating Instructions	1
93	9.804-016.0	Filter Screen Washer, Garden Hose / 30 Mesh	1
	8.757-192.0	Plug, 1/4" NPTF Countersunk Brass (Fuel Tank)	
96	8.925-544.0	Generator Rail	1
97	8.925-542.0	Adapter Plate TB2400 Mild Steel PGHW	1
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CONTROL PANEL EXPLODED VIEW



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CONTROL PANEL PARTS LIST

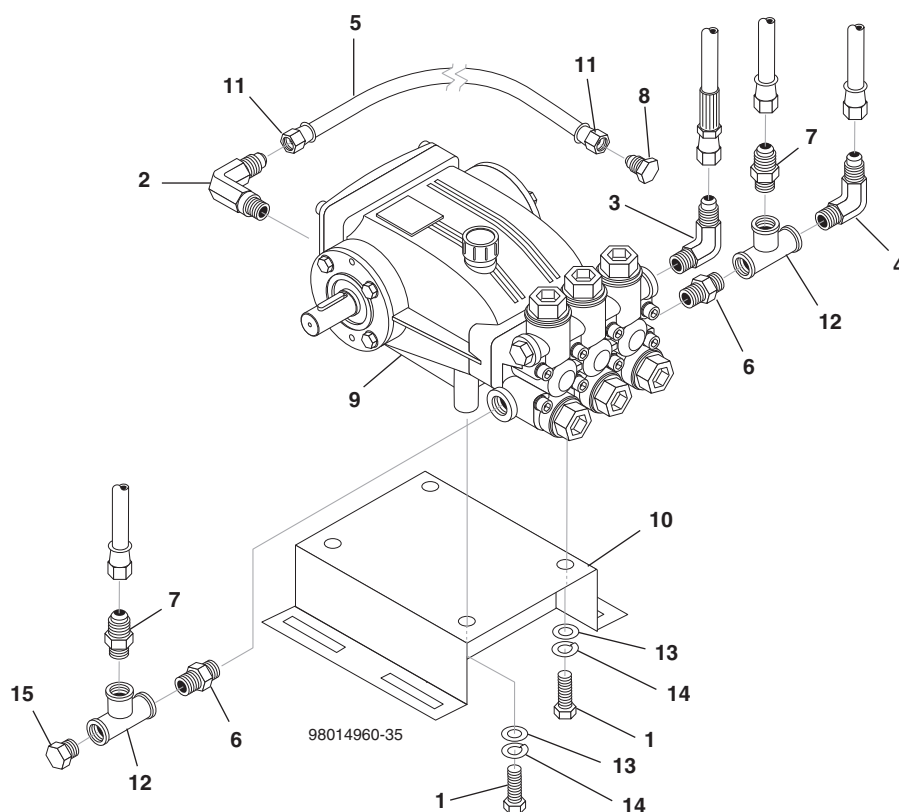
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	8.712-159.0	Voltmeter, 120VAC	1	13	8.758-486.0	Label, Control Box Kubota	1
2	9.803-895.0	Thermostat, 240°	1	14	8.758-327.0	Label, Ground Symbol	1
3	9.802-453.0	Burner Switch	1	14	9.802-762.0	Screw, 10/32" x 1-1/4	6
4	9.802-283.0	Hour Meter	1	14	9.802-695.0	Nut, 10/32" Keps	6
5	8.912-484.0	Box, Electric, Diesel	1	15	9.802-447.0	▲ Conduit, 1/4" Corrugated Tubing	66"
6	8.758-482.0	Label, Nozzle 0 15 25 40	1	16	8.920-739.0	Cover, E-Box, Diesel	1
7	9.802-517.0	Connector, 1/2" L/T, 90°	1	17	8.718-852.0	Nut, 6/32" Hex	2
8	9.802-448.0	Conduit, Water Tight	18"	18	8.707-136.0	Coupler, 1/4" Plug (10-32)	4
9	9.802-103.0	Bushing, 5/8" Snap, P/N 2123	1	19	8.750-097.0	Knob, Thermostat 240°F	1
10	9.802-064.0	Grommet, Rubber Nozzle	4	20	8.712-190.0	Bezel, Thermostat	1
11	9.802-793.0	Cage, Nut, 1/4"	8	21	8.718-779.0	Screw, 4mm x 6mm	2
12	9.802-765.0	Screw, 1/4" Allen Head	8				

CONTROL PANEL PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
22	8.712-378.0	Nozzle, SAQCMEG, 0009, Red (30/22)	1
	8.712-379.0	Nozzle, SAQCMEG, 1509, Yellow (30/22)	1
	8.712-380.0	Nozzle, SAQCMEG, 2509, Green (30/22)	1
	8.712-381.0	Nozzle, SAQCMEG, 4009, White (30/22)	1
	8.707-760.0	Nozzle, 0011, (37/22)	1
	8.707-761.0	Nozzle, 1511, (37/22)	1
	8.707-762.0	Nozzle, SAQCMEG, 2511, (37/22)	1
	8.707-763.0	Nozzle, SAQCMEG, 4011, (37/22)	1
23	9.802-494.0	Bar Jumper	4
24	9.802-514.0	Strain Relief	1
25	8.751-410.0	Switch, Key	1
26	8.750-817.0	Light, 14V	4
27	8.753-258.0	Light, 120V	1
28	9.802-493.0	Block, Terminal 16 Pole	1
29	8.758-336.0	Label, Assembled In USA Outdoor Use	1
30	9.800-034.0	Lexan, Clear	1
31	9.802-515.0	Strain Relief	1
32	8.751-412.0	Timer, Lamp, Quickglow	1
33	8.758-601.0	Label 16-Pole Terminal Strip	1

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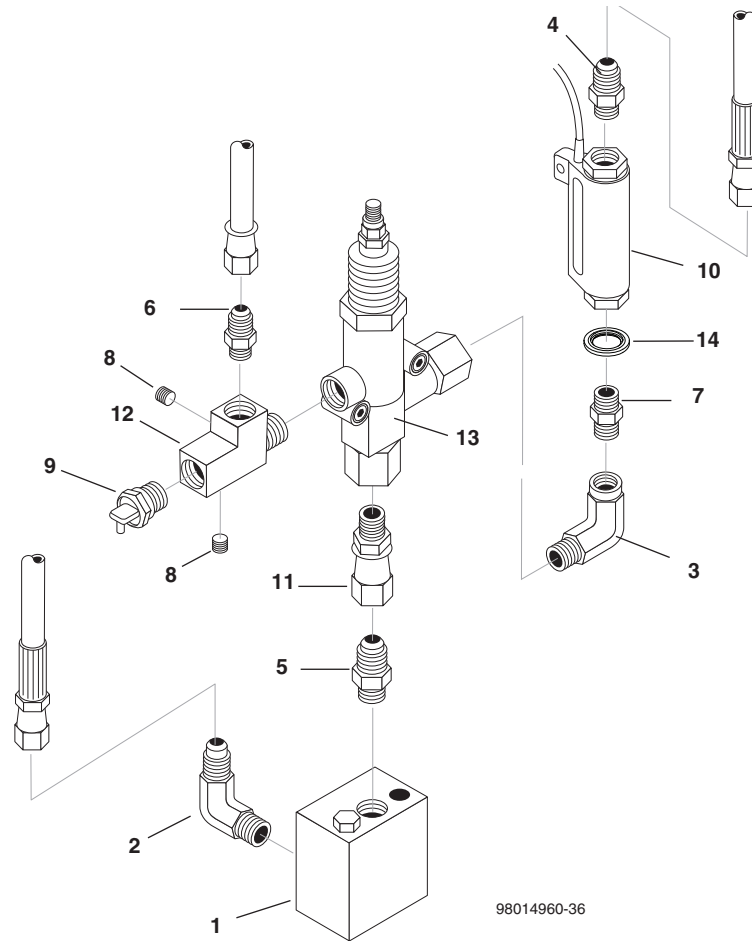
PUMP ASSEMBLY EXPLODED VIEW & PARTS LIST



PUMP ASSEMBLY PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-744.0	Bolt, 10mm x 20mm HH Zinc	4	8	9.802-126.0	Plug, 1/2" JIC Flare,	1
2	8.757-262.0	Elbow, 1/2" 45° SAE X 3/8" M-NPTF, Brass	1	9	8.920-596.0	Pump, Karcher, KX1036L.2 37/22	1
3	8.757-617.0	Adapter 1/2 JIC (M) x 1/2 BSPP (M) 90°	1		8.920-594.0	Pump, Karcher, KX9536L.2 30/22	1
4	8.757-503.0	ELBOW, 3/4" MSAE X 3/4" NPTF, Brass	1	10	9.802-979.0	WLMT, Pum/Generator Rail	1
5	9.802-259.0	Hose, 1/2" Push-On, /FT	2	11	9.802-151.0	Swivel, 1/2" Barb x 1/2" JIC, FEM/Brass	2
6	8.757-622.0	Adapter 3/4 BSPP (M) x 3/4 NPTF (M)	2	12	8.757-671.0	Tee Brass 3/4"	2
7	8.757-808.0	Adapter 3/4 SAE x 3/4 NPTF (M)	2	13	9.802-807.0	Washer, 3/8", SAE, Flat Zinc	4
				14	8.718-961.0	Washer, M10 SPLT RNG LCK8.8CLSS Zinc PTLD	4
				15	8.757-809.0	Plug Brass 3/4 NPTF	1

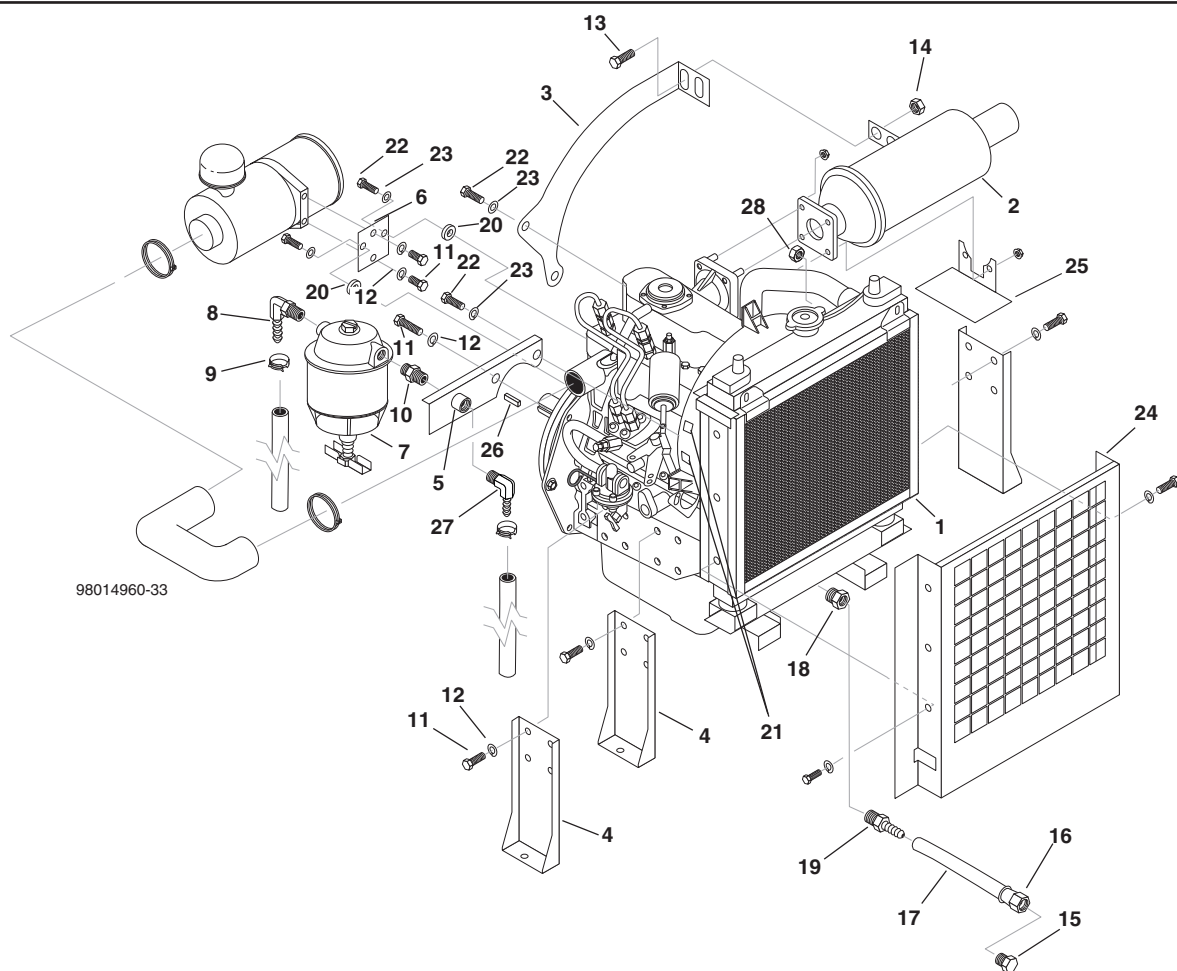
UNLOADER ASSEMBLY EXPLODED VIEW & PARTS LIST



UNLOADER PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-869.0	Block, Unloader, 1/2 x 1/2	1	8	8.757-660.0	Plug Counter Sunk Brass 1/8	2
2	8.757-510.0	Elbow, 3/4"-16 SAE, 1/2"NPTF (M), Steel	1	9	8.757-627.0	Pump Protector 1/2 190°	1
3	8.757-654.0	Elbow Street Steel NPTF 1/2 (M)x 3/8 (F)	1	10	8.933-006.0	Switch, Flow MV60	1
4	8.756-875.0	Adapter, 3/4-16 M JIC X G 3/8-19 M	1	11	8.757-624.0	Swivel 1/2 JIC (F) X 1/2 NPTF (M)	1
5	8.757-508.0	Adapter, 3/4"-16SAE X 1/2" NPTF(M), Steel	1	12	8.757-710.0	Tee Street Brass 1/2" W/ 2 holes 1/8"	1
6	8.757-194.0	Adapter, 3/4" 45° SAE x 1/2" M-NPTF, Brass	1	13	8.712-708.0	Unloader Valve (GIANT 22913) 30	1
7	8.757-653.0	Nipple Hex Steel 3/8" NPTF x 3/8" BSPP	1	14	8.757-211.0	Seal, Bonded, BSPP, 3/8" (-06)	1

ENGINE ASSEMBLY

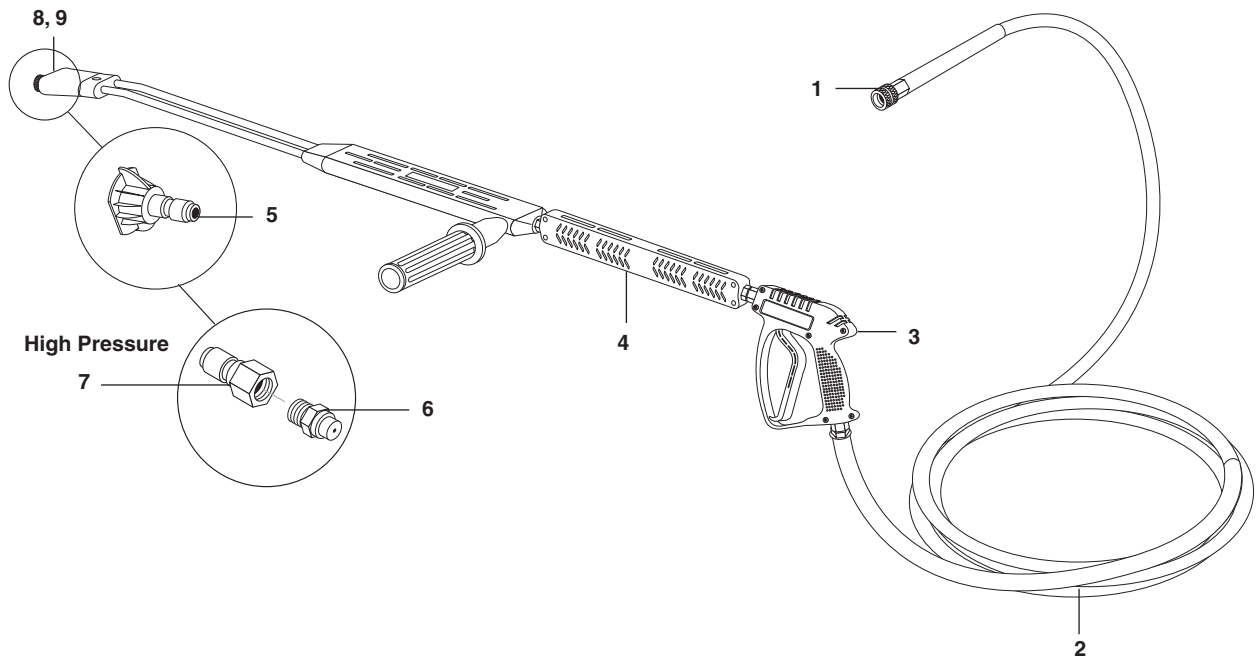


ENGINE ASSEMBLY PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	8.753-177.0	Engine, Kubota D11050-E3B	1	14	9.802-781.0	Nut, 3/8" NC, Whiz Loc	2
2	8.753-183.0	Muffler, Silencer, Hapco Kubota D1105	1	15	9.802-126.0	Plug, 1/2" Flare	1
3	8.753-178.0	Bracket, Muffler Kubota	1	16	9.802-151.0	Swivel, 1/2" Barb x 1/2" JIC, Fem/Brass	2
4	8.920-740.0	Bracket, Engine Support Kubota D1105	4	17	9.802-259.0	Hose, 1/2" Push-On	15"
5	8.920-798.0	Wlmt, Bracket, Fuel Filter Kubota	1	18	8.753-291.0	Adapter, 3/8" x 12mm	1
6	8.920-796.0	Plate, Air Filter, Mnt Kubota	1	19	8.757-487.0	Hose Barb, 1/2" Barb X 3/8", Brass	1
7	8.725-306.0	Filter, Fuel Oil H ₂ O Separator	1	20	8.719-047.0	Washer, Nylon .390 ID x 1.0 OD x .25 THK	2
8	8.757-205.0	Hose Barb, 1/4" Barb x 1/4" M-NPTF, 90°	1	21	8.716-533.0	Clamp, Tie Wrap, Adhesive	3
9	9.802-203.0	Clamp, 1/2" Ro-Clip	2	22	9.802-742.0	Bolt, 8mm x 20mm, HH	5
10	8.757-877.0	Nipple Steel Hex 1/4 NPTF (M)	1	23	9.802-813.0	Washer, 5/16" Split Ring	5
11	8.751-870.0	Screw, 10mm x 25mm	17	24	8.921-586.0	Kubota Panel, Radiator SLX	1
12	8.718-961.0	Washer, M10 Split Ring	17		8.921-585.0	Kubota Panel, Radiator SLT	1
13	9.802-767.0	Screw, 3/8" x 3/4" Whiz Loc	2	25	8.921-578.0	Plate, Heat Shield	1
				26	8.753-476.0	Key, 3/8 x 2"	1
				27	8.757-872.0	Elbow Brass 1/4 NPTF (M) x 5/16 barb 90°	1
				28	8.613-635.0	Nut, M6 HEX	1

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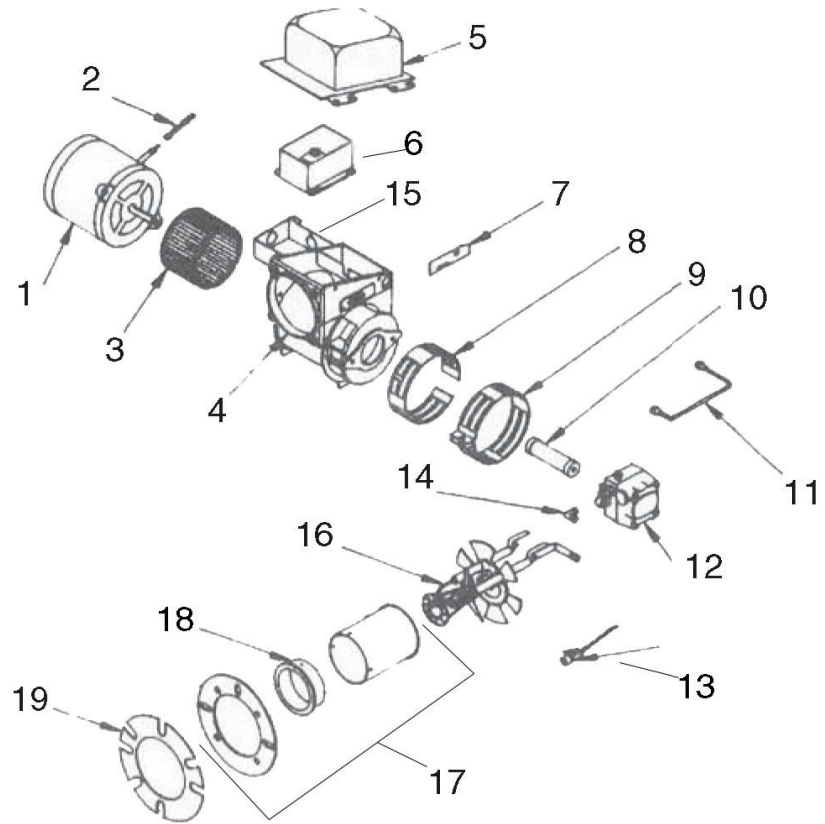
EXPLODED VIEW - HOSE & SPRAY GUN ASSEMBLY



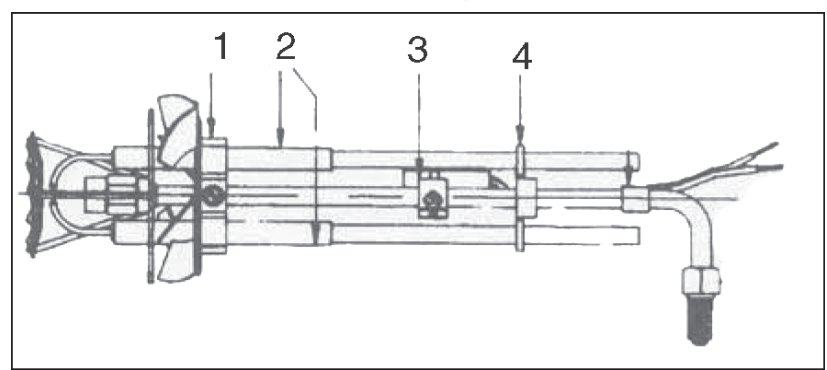
HOSE & SPRAY GUN ASSEMBLY PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-166.0	Coupler, 3/8" Female	1	6	8.707-761.0	Nozzle, MEG 1511, Yellow 37/22	1
	9.802-100.0	▲ Quick Coupler O-Ring, 3/8" Replacement Only	1		8.707-762.0	Nozzle, MEG 2511, Green 37/22	1
2	8.925-245.0	HOSE, 1/2"X50' 2W 5000PSI KAR SW,SO,CPL	1		8.707-763.0	Nozzle, MEG 4011, White 37/22	1
3	8.710-384.0	Gun, ST-1500 5000 PSI, 10.4 GPM	1	7	8.707-136.0	Coupler, 1/4" Plug FPT	4
4	8.711-308.0	Wand, SS, VP (AL344) w/Coupler & Soap Nozzle	1	8	9.802-286.0	▲ Brass Soap Nozzle Only, 1/8"	1
5	8.712-378.0	Nozzle, SAQ MEG 0009, Red 30/22	1	9	9.802-164.0	▲ Quick Coupler, 1/4" Female	1
	8.712-379.0	Nozzle, SAQ MEG 1509, Yellow 30/22	1		9.802-096.0	▲ Quick Coupler O-Ring 1/4" Replacement Only	1
	8.712-380.0	Nozzle, SAQ MEG 2509, Green 30/22	1			▲ Not Shown	
	8.712-381.0	Nozzle, SAQ MEG 4009, White 30/22	1				

WAYNE EH OIL-FIRED BURNER



Gun Assembly Detail



WAYNE EH OIL-FIRED BURNER REPLACEMENT PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	8.700-770.0	MOTOR, 1/4 120VAC	1
2	13121	MOTOR CORD COVER	1
3	8.756-438.0	BURNER FAN	1
4	8.700-735.0	BURNER HOUSING -PAINTED	1
5	8.700-802.0	IGNITOR, E, 120VAC	1
6	8.757-055.0	HONEYWELL R7284P (POTTED)	
7	13392	SLOT COVER PLATE	1
8	8.700-732.0	BAND, AIR BURNER INNER EHA/SR	1
9	8.700-729.0	AIR BAND 8 HOLE OUTER EHA/SR	1
10	8.700-776.0	COUPLING A/B PUMP	1
11	8.700-704.0	OIL LINE ASSEMBLY	1
12	8.717-814.0	PUMP, COMBO 120VAC	1
13	8.700-819.0	CAD CELL	1
14	13494	BRASS 90° ELBOW	1
15	8.756-742.0	JUNCTION BOX, EHASR, BLACK BODY	1
-	8.756-743.0	HOLE PLUGS (4 NEEDED PER BURNER)	1
16	8.756-439.0	GUN ASSEMBLY (SEE BELOW)	1
17	8.756-444.0	FLANGE-TUBE WELDMENT	1
18	8.757-057.0	AIR CONE 3.56"	1
19	8.700-692.0	GASKET	2
-	2794-011	PEDESTAL	1

GUN ASSEMBLY DETAIL

1	21923-001	ELECTRODE SUPPORT KIT	1
2	13286	STEM/INSULATOR KIT	1
3	13078	CAD CELL MOUNT	1
4	13276-002	BUSS BAR SUPPORT	1

PARTS SPECIFICATIONS

PUMP

ENGINE

Model	PSI	Hi-Pres Nozzle	Pump Model #	Pump Part #	Pump Pulley	Pulley Part #	Bushing	Bushing Part #	Pump Belt (Qty)	Belt Part #	Engine	Engine Part #
30/22	3200	9	KX-9536L	8.920-594.0	3BK80H	8.715-618.0	25mm	8.802-403.0	BX37 (3)	8.715-698.0	Kubota D1105	8.753-177.0
37/22	2800	11	KX-1036L	8.920-596.0	3BK80H	8.715-618.0	25mm	8.802-403.0	BX38 (3)	9.802-417.0	Kubota D1105	8.753-177.0

PARTS SPECIFICATIONS

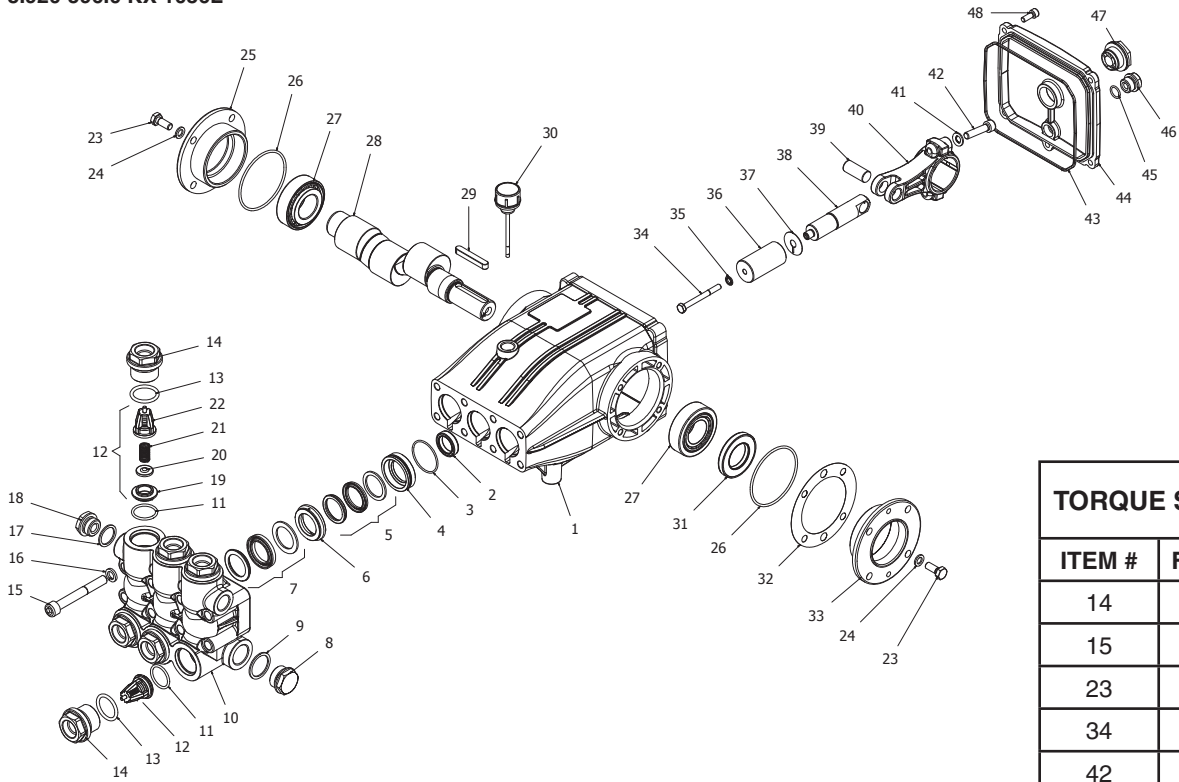
ENGINE

GENERATOR

Model	Engine Pulley	Pulley Part #	Engine Bushing	Bushing Part #	Generator Pulley	Pulley Part #	Generator Bushing	Bushing Part #	Generator Belt (Qty)	Belt Part #
30/22	4840SD	8.715-623.0	SDx1-7/16	8.753-182.0	BK32	9.802-377.0	7/8"	8.715-663.0	BX22 (1)	9.802-412.0
37/22	4840SD	8.753-094.0	SDx1-7/16	8.753-182.0	BK32	9.802-377.0	7/8"	8.715-663.0	BX22 (1)	9.802-412.0

KX.2 SERIES PUMP EXPLODED VIEW

8.920-594.0 KX 9536L
8.920-596.0 KX 1036L



TORQUE SPECS	
ITEM #	FT. LBS.
14	95
15	45
23	8
34	10
42	30
48	8

KX.2 SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	8.752-825.0	Crankcase	1	18	9.802-926.0	Brass Plug 1/2	1
2*	See Kit Below	Plunger Oil Seal	3	19	See Kit Below	Valve Seat	6
3*	See Kit Below	O-Ring Ø1.78 x 37.82	3	20	See Kit Below	Valve Plate	6
4*	See Kit Below	Pressure Ring	3	21	See Kit Below	Valve Spring	6
5*	See Kit Below	U-Seal	3	22	See Kit Below	Valve Cage	6
6*	See Kit Below	Intermediate Ring	3	23	8.752-830.0	Hex Screw	8
7*	See Kit Below	U-Seal	3	24	9.802-884.0	Washer	8
8	9.803-285.0	Brass Plug, G3/4	1	25	9.803-182.0	Closed Bearing Housing	1
9	9.803-286.0	Copper Washer 3/4	1	26	9.803-186.0	O-Ring Ø2.62 x 71.12	2
10	8.752-831.0	Manifold Housing Ø22/Ø20/ 1	1	27	9.803-160.0	Roller Bearing	2
11*	8.752-836.0	O-Ring Ø2.62 x 21.89	6	28	8.752-829.0	Crankshaft Ø25 (9536)	1
12*	See Kit Below	Valve Assembly	6		8.752-827.0	Crankshaft Ø25 (1036)	1
13*	9.803-287.0	O-Ring Ø3.53 x 25.80-134	6	29	9.803-293.0	Crankshaft Key	1
14	8.752-855.0	Valve Plug	6	30	8.752-834.0	Oil Dip Stick	1
15	8.752-833.0	Manifold Stud Bolt	8	31	9.803-139.0	Crankshaft Seal	1
16	9.802-890.0	Lock Washer	8	32	9.803-177.0	Shim	2
17	9.803-199.0	Copper Washer 1/2	1				

KX.2 SERIES PUMP PARTS LIST (CONT)

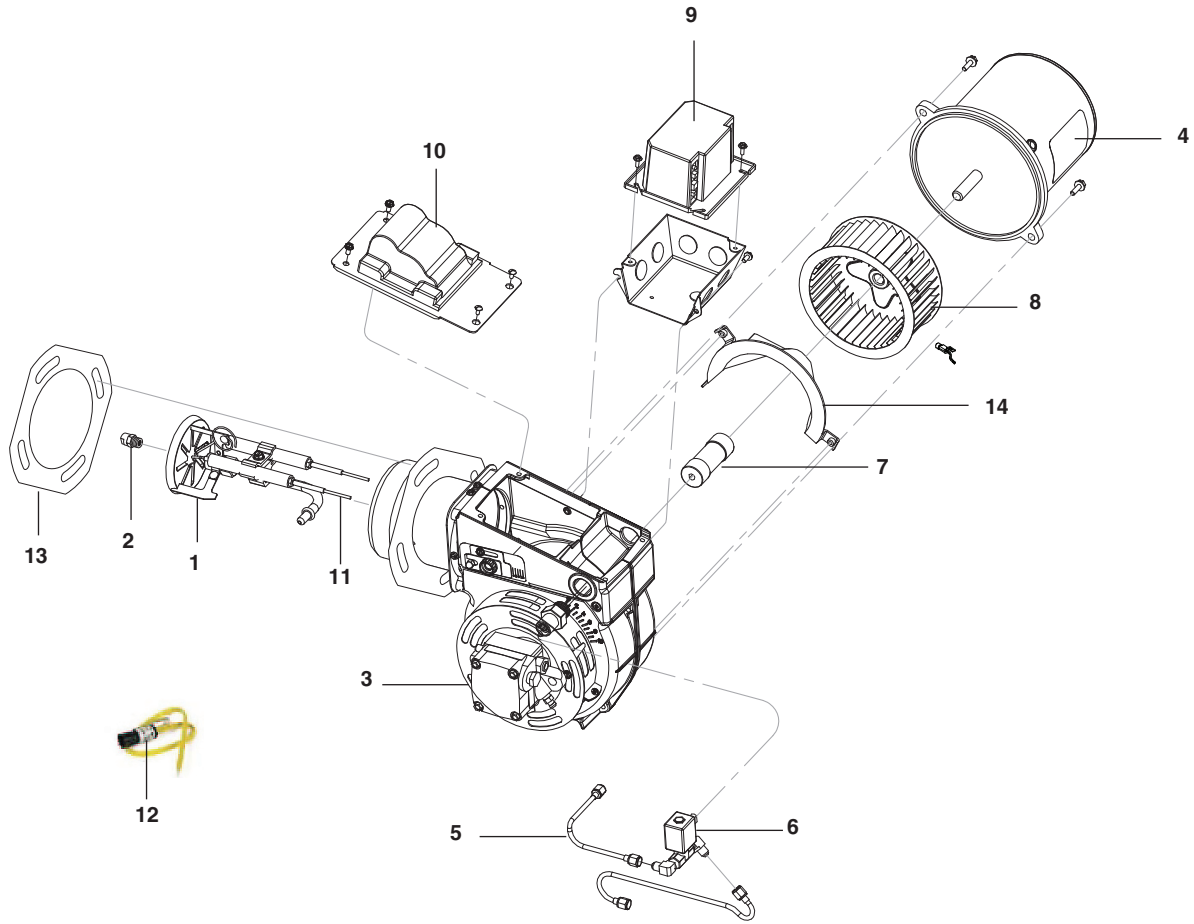
ITEM	PART NO.	DESCRIPTION	QTY
33	9.803-181.0	Bearing Housing	1
34*	8.752-841.0	Plunger Bolt	3
35*	8.752-820.0	Bonded Seal	3
36*	8.752-847.0	Plunger, 22mm	3
37*	8.752-823.0	Copper Spacer	3
38	8.752-842.0	Plunger Rod	3
39	8.752-822.0	Connecting Rod Pin	3
40	9.803-157.0	Connecting Rod	3
41	9.802-889.0	Spring Washer	6
42	9.802-937.0	Connecting Rod Screw	6
43	9.803-194.0	O-Ring Ø2.62 x 152.07	1
44	8.752-826.0	Crankcase Cover	1
45	9.803-906.0	O-Ring Ø1.78 x 14.00	1
46	8.707-262.0	Brass Plug G3/8	1
47	9.803-202.0	Sight Glass G3/4	1
48	8.752-824.0	Cover Screw	5

* Part available in kit (See below)

KIT NUMBERS	8.752-844.0	8.757-937.0	8.752-839.0	8.752-349.0	8.752-835.0
KIT DESCRIPTION	Plunger Seals 22 mm	Seal Packing 22mm	Plunger 22mm	Complete Valve	Plunger Oil Seals
ITEMS NUMBERS INCLUDED	3, 5, 7	3, 4, 5, 6, 7	34, 35, 36, 37,	11,12, 13	2
NUMBER OF CYLINDERS KIT WILL SERVICE	3	3	1	6	3

BECKETT CF800 BURNER ASSEMBLY EXPLODED VIEW

8.717-102.0



BURNER ASSEMBLY EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.718-216.0	Nozzle Line Assy (ATC CF60KHS) Includes Air Tube, Head, Nozzle Gun Assy.	1
2	8.717-367.0	Nozzle, 4.5 80B (SLX10)	1
3	8.717-832.0	Fuel Pump, B2YA-8916	1
4	8.701-088.0	Motor, 1/3 HP 120V (21341)	1
5	9.802-667.0	Fuel Line, 8"	1
6	8.717-844.0	Valve, Fuel 120V	1
7	9.803-058.0	Coupling	1
8	8.717-835.0	Blower Wheel, 6-5/16" x 2-3/8"	1
9	8.751-335.0	Primary Control, Genisys, 120V	1
10	9.803-060.0	Ignitor	1
11	8.723-939.0	Electrodes	1
12	9.802-676.0	CAD Cell Photoelectric	1
13	9.802-653.0	Gasket, Flange (31802)	1
14	8.750-085.0	Air Guide (178)	1



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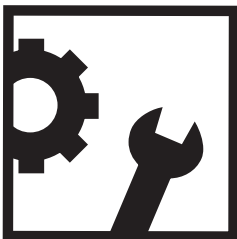


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