

EASY-KLEEN PRESSURE WASHING SYSTEMS OPERATION MANUAL

Cold Water Gasoline/Electric

This manual has been prepared under the direction of our assembly and service technicians. They have been designing, manufacturing, installing and servicing our equipment from our company's inception in 1982. They know what information the end user needs in order to get the optimum performance from their pressure washer.

This manual contains information that will be specific for your pressure washer, as well as similar models. The table of contents will allow you to identify the sections that apply to your equipment. **Carefully review any additional manuals that have been included with your system and follow ALL ADDITIONAL OPERATING INSTRUCTIONS.** They are specific for the quality components that have been used to manufacture your machine and are an integral part of the operating and maintenance procedures.

The management & staff at Easy-Kleen Pressure Systems are proud of the equipment that we design and manufacture and we thank you for making us your # 1 choice in pressure washers. If you have any questions please do not hesitate to call us, 1-800-315-5533.

SAFETY FIRST

The safe operation of our pressure washing systems is the first priority of Easy-Kleen Pressure Washing Systems. This will only be achieved by following the operation and maintenance instructions as explained in this manual and all other enclosed manuals.

If you need further explanation of any of the information in this manual, suspend any activity involving the equipment and call our toll free number for assistance, 1-800-315-5533.

HIGH PRESSURE SPRAY CAN CAUSE SERIOUS INJURIES. HANDLE THE SPRAY ASSEMBLY WITH CARE.

**NEVER POINT PRESSURIZED
SPRAY AT ANY PERSON OR
ANIMAL !**

OPERATING INSTRUCTIONS

1. **Perform prestart maintenance inspection prior to operating the machine. This is essential for the safe, effective and efficient operation. You will get optimum performance from you system ONLY if these instructions and inspections are followed. Any indication that the pressure washing system was not operated and maintained according to these instructions may cancel the manufacturers warranty.**
 - **Carefully review any additional manuals that have been included with your system and follow ALL ADDITIONAL OPERATING INSTRUCTIONS. They are specific for the quality components that have been used to manufacture your machine and are an integral part of the operating and maintenance procedures.**
 - **Pump oil level – Level the pressure washer. Locate the circular site glass on pump. The oil is at the correct level, if the top of the oil is sited at the middle of the center colored indicator dot. If the level is low, add CORRECT oil to the proper level. Refer to the suggested spare list for proper oil to use. DO NOT OVER FILL.**
 - **Gearbox oil level – Gas or Diesel units - Level the pressure washer. Locate the circular site glass on gearbox. The oil is at the correct level, if the top of the oil is sited at the middle of the center colored indicator dot. If the level is low, add CORRECT oil to the proper level. Refer to the suggested spare list for proper oil to use. DO NOT OVER FILL.**
 - **Engine levels – Refer to the engine operation manual included with your pressure washing unit.**
 - **Visually inspect all hoses, nozzles and guns to assure they are in good condition. If replacements are necessary they must be rated to withstand the machines operating pressure and temperatures. Please refer to chart guide in the table of contents.**

- Visually inspect all electrical components to assure they are in good condition, showing no signs of exposure, breakage or splicing.
 - Visually inspect the pressure gauge, the glass must be intact and the pressure at zero.
2. Attach the high-pressure assembly to the outlet coupling on the boiler or pump. Ensure that the quick disconnect connections are tightly locked together.
 3. Attach the water source to the water inlet located on the lower half of the pump. The water source may be attached with a good quality standard garden type hose. Connect the male fitting into the female pump inlet swivel fitting making sure that the inlet screen is intact and fitted correctly. **WATER MUST BE IN SUFFICIENT SUPPLY AND PRESSURE MUST BE BETWEEN 20 – 60 PSI TO ENSURE PROPER AND SAFE OPERATION. DO NOT ATTACH A HOSE THAT IS SMALLER IN SIZE THAN HE INLET OF THE PUMP.**
 4. Connect the pressure washer to the correct electrical outlet, i.e.; phase, voltage, amperage etc. **IF YOU REQUIRE UPGRADES OR MODIFICATIONS TO YOUR EXISTING ELECTRICAL SYSTEM IN ORDER TO OPERATE YOU PRESSURE WASHER, THEY MUST BE PERFORMED BY A LICENSED ELECTRICIAN AND BE COMPLETED IN ACCORDANCE TO ALL APPLICABLE CODES IN YOUR AREA OF OPERATION.**

**THE MACHINE MUST BE
PROPERLY GROUNDED TO
PREVENT ELECTRICAL SHOCK !**

- 5. Pressure Adjustment - The pressure regulator (unloader) is located on the pump. It controls the pressure being generated by the pressure washer. This regulator may be adjusted to the desired pressure by turning the adjustment knob or nut, depending on the unit purchased. Turning the adjustment knob clockwise will increase the pressure. NEVER OPERATE SYSTEM AT A PSI HIGHER THAN THE MAXIMUM RATING. This machine has been adjusted to operate at a specifically rated PSI and Volume, as per the machine specifications. Pressure may be reduced for lighter use by turning the Pressure Regulator/Unloader counter clockwise. Always monitor the pressure gauge when adjusting pressure.**
- 6. Pull trigger on the pressure wand assembly to start cleaning. To stop the pressurized water, release the trigger.**
- 7. To stop operation – Release trigger on the pressure wand assembly. Turn off main power. Release the trigger for the second time in order to relieve the pump system of pressure.**
- 8. Prior to storage – inspect the pressure washer for any damage or required maintenance.**

CHEMICAL APPLICATION

DOWNSTREAM CHEMICAL INJECTION – STANDARD

- 1. Chemical preparation – Select the detergent/chemical that best suits your cleaning task. Prepare the dilution according to the manufacturers instructions. The volume of chemical being used may be adjusted at the valve located on the pressure wand.**
- 2. Insert the intake hose, located on the chemical injector at the pump, into the chemical being used.**
- 3. Turn the adjustment knob on the wand or lance to the on position.**
- 4. To apply chemical, release the trigger on the pressure wand assembly.**
- 5. Chemical can now be applied through the pressure wand assembly. It will take 5 – 15 seconds for the chemical to travel to the spray nozzle. Volume of chemical being used or water being supplied may be adjusted at the Chemical Injector.**
- 6. For best results apply chemical from bottom to top, allow the chemical proper penetration time prior to rinsing. Rinse from the top to the bottom.**

CHEMICAL APPLICATION

UPSTREAM CHEMICAL INJECTION – OPTIONAL

This valuable option is used when high pressure, deep down, cleaning is necessary.

- 1. Chemical preparation – Select the detergent/chemical that best suits your cleaning task. Prepare the dilution according to the manufacturers instructions.**
- 2. Insert the intake hose, located on the chemical injector at the pump, into the chemical being used.**
- 3. Turn the adjustment knob on the chemical injector to the on position, ball valve on the body.**
- 4. To apply chemical, release the trigger on the pressure wand assembly.**

IT IS CRITICAL THAT THE FOLLOWING ADJUSTMENTS ARE DONE CORRECTLY. IF THE ADJUSTMENTS ARE NOT MADE CORRECTLY THE PUMP WILL BECOME STARVED FOR WATER AND PERMANENT DAMAGE MAY OCCUR. SHOULD YOU HAVE ANY DIFFICULTIES OR QUESTIONS PLEASE CALL 1-800-315-5533 AND OUR SERVICE DEPARTMENT WILL ASSIST YOU WITH PROPER SET UP

- 5. To adjust chemical injector, set pressure washer to desired pressure, turn the brass screw in the middle of the injector until the soap begins to flow. The pressure will almost always have to be readjusted at this point, slowly adjust the screw until you have reached your initial PSI.**
- 6. You may now adjust the chemical draw by turning the metering screw on the flow meter (black cube located on the chemical injector). By removing the inlet hose from the chemical source and replacing it you may watch how fast the air bubbles travel and set the flow meter accordingly.**
- 7. For best results apply chemical from bottom to top, allow the chemical proper penetration time prior to rinsing. Rinse from the top to the bottom.**

WINTER PROTECTION- PUMP

The following procedure MUST be used when the pressure washing unit is stored at temperatures below 0°C/32°F between uses.

- 1. All water must be drained from system. Connect a short piece of male fitted ½ “ garden type hose on to the female inlet on the pump.**
- 2. Place the open end on the hose into a wide mouthed container of full strength, winter rated, vehicle windshield washing fluid, RATED FOR MINIMUM -40°C.**
- 3. Connect the pressure wand assembly.**
- 4. Start the engine and engage the trigger on the pressure gun. Aim the pressure wand assembly into the container containing the windshield washing fluid. Operate the system until the fluid runs the same color as the windshield washing fluid. Your machine is now prepared for storage.**