

OPERATING INSTRUCTIONS FOR
ELECTRIC DRIVEN PRESSURE SYSTEM

Thank you for purchasing an EASY-KLEEN high pressure cleaning system for your application. We at EASY-KLEEN know the investment that you have made and want to help you get the best results from your cleaning system and to operate it safely and efficiently. To insure that you are completely satisfied, please read over this manual carefully so that you completely understand how your new EASY-KLEEN system operates.

MODEL : _____

MAX. PSI. : _____

MAX. GPM. : _____

PRE-START INSTRUCTION :

1. Check pump oil level by viewing the round sight glass on the back side of the pump. The oil level should be at the center marked by a red dot. If the oil level is low, fill to the correct level with proper oil. (EASY-KLEEN pump oil is recommended and is available at you local distributor.)
2. Check gearbox oil if system is equipped with a gear reduction located between the engine and the pump. The oil level can be checked by viewing the oil level sight glass located on the backside of the gearbox. The proper oil level is marked by a red dot. If the oil is low, fill to correct level with gear oil. (EASY-KLEEN gear oil is recommended and is available at your local distributor.)

NOTE : Pressure washer must be on a level surface to ensure proper oil level is attained .

OIL LEVEL SIGHT GLASS:

!!IMPORTANT!!

Do not use detergent type or multi-grade oils for pump lubrication . Use only SAE or SAE 30 NON-DETERGENT mineral motor oil. Do not overfill crankcase. If this happens, a portion of the oil must be removed before system can run again. Remember to replace the oil plug after filling crankcase with oil .

3. Check engine levels. (See engine manual included in this package.)
4. Attach the high pressure spray assembly to the outlet coupling on the pump . Ensure that the quick disconnect is tightly locked together. Check nozzle for wear. Worn nozzles will effect the cleaning performance of this system. For correct nozzle size, see nozzle chart in this manual. (Replacement nozzles are available at you local EASY-KLEEN distributor and are highly recommended when worn nozzles need to be replaced.)

START-UP PROCEDURE :

1. Inlet water hook up, use no less than 1/2" inside diameter (larger the better) garden hose. Connect the male fitting into the female pump inlet swivel fitting, ensuring that the inlet screen is in place . Turn water supply on and open trigger gun to make sure water is throughout the system. Note : Water supply pressure must not exceed -2 to 60 psi.
2. Electrical connection is made by a power cord from the power source to the top of the motor starter in the electrical connection box. Check the electrical rating plate on the unit for correct VOLTAGE - PHASE AND TOTAL AMP DRAW.

ATTENTION

All electrical work is to be performed by a qualified electrician and adhere to all local and provincial electrical codes. (Make sure power cords are of proper size.)

CAUTION

This machine must be properly grounded to prevent electrical shock.

3. Adjust pressure regulator to desired pressure by turning control knob clock-wise. NOTE: NEVER OPERATE SYSTEM AT HIGHER PSI THAN MAXIMUM RATING. (See front of this manual for pump ratings.)
4. Pull trigger control gun to start cleaning. To stop cleaning, release the trigger gun. To resume cleaning, pull trigger gun again .

NOTE : HIGH PRESSURE SPRAY CAN CAUSE SERIOUS BODILY HARM.
HANDLE SPRAY ASSEMBLY WITH CARE - NEVER POINT SPRAY
ASSEMBLY AT ANY PART OF THE BODY OR AT OTHER PERSONS !

CHEMICAL APPLICATIONS :

A. Standard Downstream Chemical Injection System :

If your pressure washer is equipped with a downstream chemical injection system, chemical is applied at a reduced pressure to avoid wastage and overspray of chemical detergent .

1. To apply chemical , first release the trigger gun .
2. Open chemical valve , located half way down the lance , turn valve clockwise .
3. Pull trigger gun on to start applying chemical . It takes 5 - 15 seconds for chemical to reach the spray jet nozzle due to volume of water in pressure hose .
4. Always apply chemical from bottom to top for best results .
5. To rinse with high pressure, follow directions in reverse.

B. OPTIONAL UPSTREAM CHEMICAL INJECTION SYSTEM:

If your pressure washer is equipped with this option, chemical is applied at high pressure for deep down cleaning performance .

1. To apply chemical , first let off on trigger gun.
2. Turn chemical valve to ON position , located next to chemical injector on inlet of pump system on machine.
3. Pull trigger gun on and start to apply chemical . It takes about 5 - 10 seconds for chemical to reach spray jet nozzle due to volume of water in pressure hose . If your water supply is too great coming into the chemical injector, a small adjustment must be made on the injector.
4. To rinse at high pressure , turn chemical valve off and pull trigger gun on .

CHEMICAL ADJUSTMENTS :

The amount of chemical that you apply can be adjusted so that chemical is not wasted . For upstream instructions see page on Optional Upstream Chemical Injection System .

1. Turn red knob on chemical injector clockwise for more chemical and counter-clockwise for less chemical. By turning the adjustment knob completely counter-clockwise it will turn the soap injector off . Always make sure that the chemical filter pick-up screen is clean and immersed in chemical solution. Note: If chemical becomes dry, the soap injector will not operate .

UNLOADER / PRESSURE RELIEF VALVE :

This high pressure washer has been adjusted at the factory to operate at the rated psi of this specific system and volume . Do not attempt to regain pressure by tuning the unloader valve downward. This will only increase spring tension which will result in system failure. Improper use of an unloader valve can void warranty. Pressure can be reduced for lighter duty cleaning power by turning the unloader valve counter-clockwise. When adjusting the unloader valve, always keep an eye on the pressure gauge .

SYSTEM SHUT DOWN :

1. Release trigger gun .
2. Turn off main power to engine. (See engine shutdown in engine owner's manual that comes with this package.)
3. Release trigger gun one more time to relieve pump system of pressure. By doing this, you will prolong the life of your pump.
4. Check system over for any damages or broken parts and replace as soon as possible .

PROTECT PUMP FROM FREEZING :

If you are located in an environment where your system will be used in cold winter weather, it is very important to make sure all water is drained from the system and pump is filled with windshield anti-freeze. Follow these simple instructions for best results .

1. Connect a short length of no less than 1/2" garden hose with male garden hose fitting on one end into the female inlet swivel on the pump. Place open end of hose into a container filled with windshield anti-freeze and connect high pressure hose complete with gun and wand.
2. Start the engine and allow to run until mixture is pumped out through the system into a container. When the anti-freeze color is noticeable, your system has been winterized and is now ready for storage.

MAINTENANCE :

(WEEKLY OR MONTHLY MAINTENANCE)

1. Check lubricants in the pump, gearbox and engine on a regular basis. If oil is gritty or cream colored, it should be changed as soon as possible. For instructions on changing fluids, see page two of this manual . For engine, see engine owner's manual that comes in this package .
2. Check hose, gun, wand and spray nozzle for wear and proper function. These items should be replaced or repaired if worn .

WARRANTY

EASY-KLEEN SYSTEMS LTD. warrants all original equipment of the manufacturer to be free from defects in material and workmanship for a period of one year from the date of shipment. Within this period, if at the discretion of the manufacturer, there is shown to be a defect in material or workmanship, the defective part will be replaced or repaired at a factory authorized repair depot when returned **PRE-PAID** . Normal wear on parts and components such as unloaders, packings, valves, seats, nozzles, quick disconnects, gauges, spray assemblies, hoses, mounts, swivels all have a 90-day replacement warranty. Gas and diesel engines have their own warranty policy and are warranted at designated repair depots throughout Canada and U.S.A.

Easy-Kleen Systems Ltd. will not warrant any parts or components resulting from freezing, accident, neglect, tampering, abuse, alteration or improper installation. **Easy-Kleen Systems Ltd.** makes no warranty in respect to accessories, parts or products not manufactured by **Easy-Kleen Systems Ltd.** Any questions with regards to this warranty policy, call toll free 1-800-315-5533.