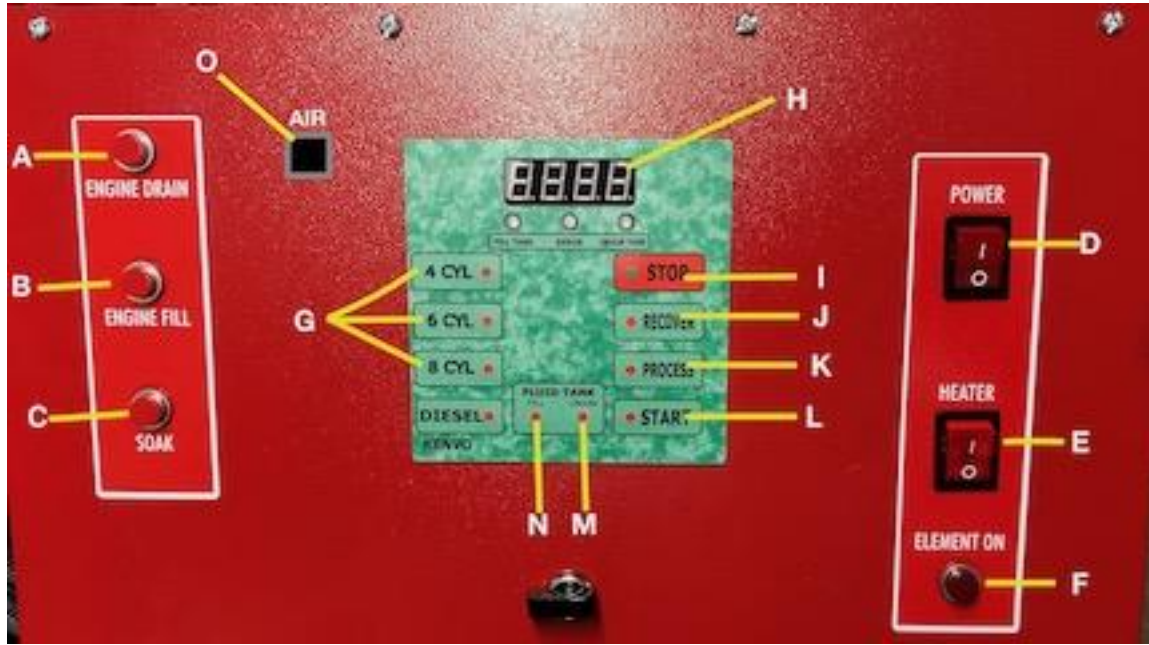


EFS 710 DIGITAL ENGINE FLUSH MACHINE

Operation Manual



IMPORTANT: Always install a new External Filter before each engine service

Initial Machine Set Up

Remove the clear filter housing and install the external filter into the filter housing. Make sure to use an O-ring when tightening the filter housing. Open the rear door on the machine. Locate the internal filter holder and attach appropriate filter.

Filling New Fluid Tank

(CAUTION do not plug in the power cord for the 110 Volt Supply until the machine is full of fluid to avoid burning out the heater element)

1. Attach an open-end hose adaptor to the CLEAR HOSE.
2. Place hose into pail of solution.
3. Turn the POWER (D) switch on. When pressed "AEF" will display on the keypad (H) This will turn off when the machine filling is complete.
4. Press FLUID TANK FILL button (N)
5. Press START (L)

Caution: If no fluid is pumping into filter housing then remove filter housing and check the O-Ring is installed properly or check the filter housing is not loose.

NOTE:

The machine may turn off after a couple of seconds. When this happens, push the Fill button (N) and START button (L) again. During the fill process. You can push the PROCESS (K) button twice to display how many liters of solution have been pumped into the machine.

After 40 x services, the machine will stop and an Rr1 (Error 1) will display on the KEY PAD (H). Once the old solution is removed and replaced with 45 liters of new solution, the machine will reset to normal functions.

How to replace fluid after 40 Services

1. Attach an open-end hose adaptor to the Blue Hose, place the hose into waste container, press Fluid Tank Button Drain Button (M). Then Press Start button (L). The machine will empty the used fluid tank. Once the process is complete the Keypad (H) will display "Done".
2. Attach an open-end hose adaptor to the Clear Hose, place the hose into the fluid

USING MACHINE WITHOUT RUNNING THE ENGINE:

- Step 1. Hook Machine to 12-volt power and shop air. Turn POWER SWITCH (D) ON
- Step 2. If using the fluid heater, plug power cord into 110-VOLT outlet and turn HEATER (E) on. The ELEMENT ON (F) light will come on during the heating process. Once the fluid has reached the desired temperature of about 43degrees Celsius, the ELEMENT ON light will turn off.
(IMPORTANT. Ensure that there is at least 16 liters of approved solution in the machine before turning the fluid heater on).
- Step 3. Drain Engine oil and remove oil filter.
- Step 4. Attach appropriate adaptors to the filter housing and drain plug.
- Step 5. Attach the BLUE HOSE from the machine to the adaptor on the oil filter housing. DO NOT attach the CLEAR HOSE to the drain plug adaptor yet
- Step 6. Turn the POWER switch on.
- Step 7. Push the AIR (O) button to force air into the engine to remove excess sludge and drain it into the used oil catch pan.
- Step 8. Now attach CLEAR HOSE to drain plug adaptor.
- Step 9. Select ENGINE SIZE - 4, 6 or 8 cylinders (G) and press START (L)
NOTE: The Machine will run through a number of fluid fill, evacuate, soak and air blasting. When the service is complete, there will be a beeping sound and the machine will turn off automatically.
- Step 10. Remove all adaptors and replace drain plug, oil filter and oil.

USING MACHINE WITH ENGINE RUNNING FEATURE:

- Step 1. Hook Machine to 12-volt power and shop air. Turn POWER SWITCH (D) ON
- Step 2. If using the fluid heater, plug power cord into 110-VOLT outlet and turn HEATER (E) on. The ELEMENT ON (F) light will come on during the heating process. Once the fluid has reached the desired temperature of about 43degrees Celsius, the ELEMENT ON light will turn off.
(IMPORTANT. Ensure that there is at least 16 liters of approved solution in the machine before turning the fluid heater on).
- Step 3. Drain Engine oil and remove oil filter.
- Step 4. Attach appropriate adaptors to the filter housing and drain plug.
- Step 5. Attach the BLUE HOSE from the machine to the adaptor on the oil filter housing. DO NOT attach the CLEAR HOSE to the drain plug adaptor yet
- Step 6. Turn the POWER switch on.
- Step 7. Push the AIR (O) button to force air into the engine to remove excess sludge and drain it into the used oil catch pan.
- Step 8. Now attach CLEAR HOSE to drain plug adaptor.
- Step 9. Select ENGINE SIZE - 4, 6 or 8 cylinder (G) and press START (L)
- Step 10. Press START (L) and press the PROCESS (K) button twice. This will display how much solution is being pumped into the engine.
- Step 11. Once the desired amount of solution has been pumped into the engine push the STOP (I) button TWICE.
- Step 12. Start the vehicles engine and let it idle for about 5 minutes.
- Step 13. Turn engine off and push the START (L) button on the machine to resume service.
NOTE: The Machine will run through a number of fluid fill, evacuate, soak and air blasting. When the service is complete, there will be a beeping sound and the machine will turn off automatically.
- Step 14. Remove all adaptors and replace drain plug, oil filter and oil.