**SAPPHIRE – BLUELINE HIGH PRESSURE WATER SYSTEM**

**370/454/460/570/870/1200, RAGE, CHAMP, COBALT, BLUEWAVE, THERMALWAVE**

**LOW OR NO WATER PRESSURE OR GAUGE IS READING LOW:**

**Owner/Operator**

**Solution Pump Switch is not turned on**

* Put the Solution Pump Switch in the ON position.

**Circuit breaker is tripped or Fuses are blown**

* Reset all Circuit breakers and replace blown fuses.

**Water Box water level is low or empty**

* Is the Water Supply connected to the Truck Mount?
* Increase water supply to the truckmount.
* Inspect and repair on-board water supply system as needed.
* Inspect water box float and adjust as needed.

**On-Board Water Supply Systems ONLY**

* Is the Water Supply connected to the Truck Mount?
* Inspect supply pump wiring, repair as needed.
* Inspect all fuses and replace burned fuses as needed.
* Inspect hoses for leaks or kinks, repair as needed.

**The water box is not providing the proper water flow to the water pump**

* Clean strainers/filters and water lines from the water box to the pump.

**High pressure water system is leaking**

* Inspect high pressure system hoses, valves and connections for leaks and repair as needed.

**Qualified Technician**

* Water box float assembly needs repair or replacement.
* Pressure regulating valve needs repair or replacement.
* Maximum engine RPM is too low.
* Worn seals or valves in high pressure pump needing replacement.
* Filters, Screens or hoses/Lines are clogged with Scale buildup.
* High Pressure pump belt is warn or broken needing replacement.
* Pump clutch needs repair or replacement.
* Heat Exchangers are leaking needing repair.
* Water leaking from exhaust.
* Freeze Damage to the system – repair as needed.

**WATER PRESSURE GAUGE READS NORMAL BUT PRESSURE IS LOW AT THE WAND:**

**Owner/Operator**

**Problem in the hoses from the truckmount or cleaning tool**

* Hoses or connections leaking, repair or replace as needed.

**Problem in the Wand or Tool**

* Tool valve is not opening properly, repair or replace as needed.
* Inline filters or tool jets are dirty, clean or replace as needed.
* Wand or Tool Jets are worn out, replace jets.
* Quick connects are sticking or clogged, replace as needed.
* Inline ball valves are not opening properly, replace as needed.

**Qualified Technician**

* Heat Exchanger is clogged and needs repair.
* Water pressure regulator is warn or damaged and needs repair.
* Solution pressure gauge needs replacement.

**WATER PRESSURE IS INTERMITTENT OR PRESSURE PULSATION:**

**Owner/Operator**

**Water in water box is too low**

* Test water supply source and correct problems or increase water flow.
* Inspect water box valve and float, adjust as needed.

**Qualified Technician**

* Water box valve or float is warn or damaged and needs repair.
* Water box temperature solenoid needs replacement.
* Water pump cavitation needing repair.
* High pressure accumulator needs repair or replacement.
* Water box low water sensor needs replacement.
* Pump Clutch needs repair or replacement.
* Electrical system needs repairs.