**HYDRAMASTER WATER HEATING SYSTEM**

**BOXXER, TITAN, MAXX, CDS, SPITFIRE, CROSSFIRE** **WATER HEATING SYSTEM**

**MACHINE OVERHEATS AND SHUTS DOWN**

**Owner/Operator**

**Air Flow around the machine is restricted**

* Open all doors and remove all materials from around machine to allow maximum air flow.

**Titan, Boxxer, Maxx or CTS450 Liquid Cooled Engines**

* Check engine coolant level, add coolant as needed.
* Inspect Radiator, clean and remove any debris.

**Outside air temperature plus heat exchangers are heating water above shutdown maximum**

* Turn the Heat Exchange Control to Divert position until water box water cools.

**Orifices or filter screens are restricted**

* Remove, inspect and clean or replace orifices or filter screens as needed.

**Fuel Vapor Lock**

* Allow the machine to cool and try to restart.

**Check Circuit Breakers and Fuses**

* Reset circuit breakers as needed.
* Replace any burned fuses.

**Qualified Technician**

* High temperature dump solenoid needs repair or replacement.
* Diverter valve is stuck and needs repair or replacement.
* Diverter valve solenoids need repair or replacement.
* Scale blocking system hoses and components needing cleaning or replacement.
* Maximum engine RPM is too high needing repair.
* Coolant overflow bottle is leaking or bubbling over.
* CDS: Air trapped in coolant hoses from the Van to the Cleaning unit.

**LOW WATER TEMPERATURE:**

**Owner/Operator**

* Water temperature control is set too low.
* Increase temperature control to a higher temperature.

**Heat Exchange Control is in Divert mode**

* Place Heat Control into Heat Exchange/Cleaning Mode.

**CDS: Van radiator coolant level is low**

* Add coolant to van radiator.

**Qualified Technician**

* Heat Exchange/Divert mode control System needs repair or replacement.
* Heat Exchangers are clogged or leaking needing repair or replacement.
* Scale blocking system hoses and components needing repair.
* High Temperature water dump system needs repair.
* Engine RPM is too low and needs repair.