

The Mammoth800 won't overheat if the following six conditions are met:

1. Antifreeze and water ratio is correct (50%-50%, do NOT use pure antifreeze).
2. Manifold water pass 100% through (see below picture)
3. No airlock inside the engine (there is an air release valve on the engine).
4. Water pump is in a good condition, if not, check the pulley, it could be loose.
5. Radiator fan is working, and the wind blew out must be hot.
6. Temp. gauge, temp. sensor, and fan sensor are in good condition.

If all of the above are meet and the gauge still shows overheat, then take a thermometer and test if the water temp is 180<sup>0</sup>F or less. If so, please "calibrate" the temp. gauge by marking the gauge. If the thermometer is over 183<sup>0</sup>F then repeat the checking step above.

### **How to check and fix the overheating on Mammoth800**

Check the wind blew out from the radiator.

Cold wind? or Hot wind?

#### **(If hot wind)**

##### **Make sure no air-lock in the engine**

Drain all the water out, open the air release valve and refill the water till water come out from the valve, then close the valve, carrying adding the water till full.

If still overheating; it should be the gauge reading overheating, not engine run overheating. You can check the radiator water temp. with a normal thermometer when the gauge shows overheating, if the temp. under 190, we know it is the gauge reading problem. Mark where the fan comes on and off on your gauge, use this as your normal operating range, or buy an actual temp gauge and install it on your machine. We would like to suggest you to add a 180 thermostat, and installed an aftermarket temp switch with a probe that sticks through the radiator. Adjusted to where it kicks on the fan at about 190 and turns off at about 178. You can buy it from Imperial Automotive Products by Hayden, Part # 226203 at Advanced Autoparts, \$18.00.

#### **(If cold wind)**

### Check manifold water pass

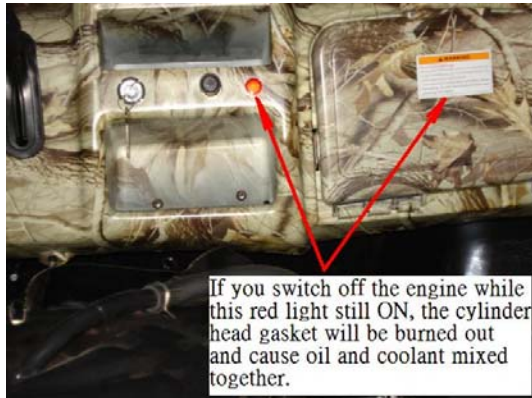
See below instruction and use a soft stick to check the carb manifold water pass because the water pass could be block.



### Check the water pump

If the manifold is full through water pass, but radiator still blow out cold wind, the water pump could out of function. Touch the inlet and outlet hoses which connected to water pump, if one side is warm, another side is cold, we know water pump out of function. Check the palepalor, it could be loose.

**\*\*\* Warning:** Do not switch off the engine while temp. warning light (see picture below) is on, because if you switch off the engine, the radiator fan and water pump will be cut off immediately, and the heat (inside the engine) will burn the cylinder head gasket, and cause oil and coolant mixed problem.



Sometime it is airlocked.....try jacking the front of the mammoth up in the air and rev it in neutral after it warms up.

Also do check to see if the antifreeze is mixed too thick as this will cause the overheating.

Airlocking in cars all of the time. some are really a bugger to bleed. also you can try to loosen the sensor when it builds pressure to bleed out the air from there. just be careful not to burn yourself....loosen just enough to cause a leak...wait until fluid comes out. tighten it up and you should be good to go. the erotic fan behavior is most likely being caused by no antifreeze on it.

Everything works fine when idling or running slow right and coolant is circulating though the radiator? So the cooling system is working, as is the thermostat, But you could remove from system to be sure (these machines do cool much better with a stat and relocating the fan sensor). So what is changing when driving it harder ... Incorrect timing will cause the engine to run hotter as will incorrect valve timing when the engine is under load. But as for the gases that keep building up .... could it be combustion gases are still getting in to the cooling system!!?? If you could get a cooling system tester (some auto parts stores rent them) which can test how much pressure is building up in the system it will tell you for sure.