

“Cooling Systems”

presentation by Mr.Bryan Coryea

It is important that engines maintain an appropriate operating temperature.

This is the job of the cooling system.

The cooling system is made up of several main parts; the parts work together to help the engine maintain a good operating temperature.

The ideal operating temperature for an engine is between 180 degrees Fahrenheit and 210 degrees

Fahrenheit. If the coolant system is not working correctly the temperature of an engine could reach up to 4200

degrees Fahrenheit, and the engine could combust.

The coolant system works by raising the temperature or the boiling point of the coolant.

In order to raise the boiling point of coolant, the system is pressurized.

The normal boiling point of water is 212 degrees Fahrenheit, but a system that is pressurized at 15 psi will have

a boiling point of 257 degrees Fahrenheit. This helps control the heat generated by the engine so that it can

run efficiently.

