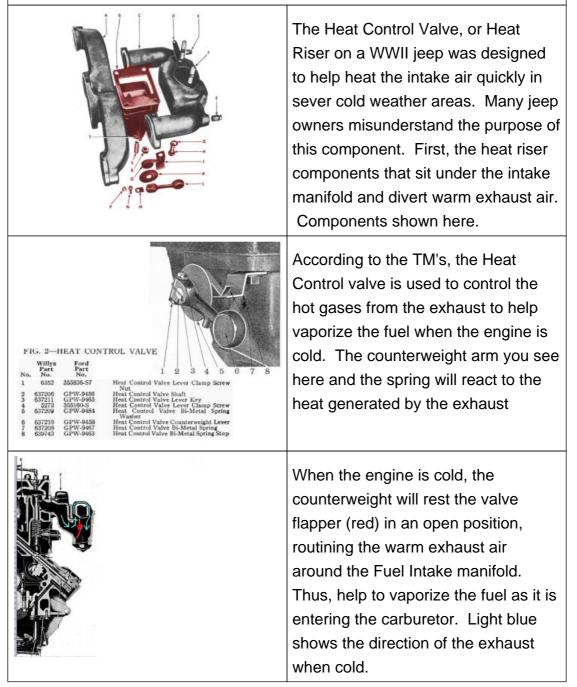
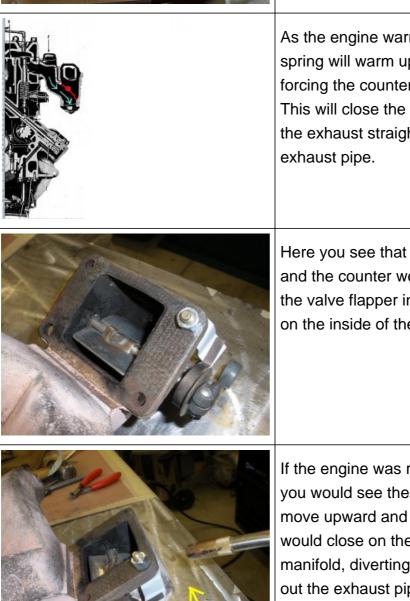
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## G503 WWII Jeep Exhaust Heat Control Valve Detailed

The WWII Jeep Exhaust Heat Control Valve (Heat Riser) had its purpose for the G503 military vehicle and cold weather. Here we describe its purpose.



Here you see what the valve (flapper) looks like in the chamber.



As the engine warms up, the circular spring will warm up and contract forcing the counterweight upward. This will close the valve and divert the exhaust straight out to the exhaust pipe.

Here you see that the engine is cold and the counter weight is resting with the valve flapper in an open position on the inside of the manifold.

If the engine was running and warm, you would see the heat control valve move upward and the valve flapper would close on the inside of the manifold, diverting exhaust directly out the exhaust pipe. Interesting to note, after engine is warm, and you turn the engine off, you can watch the valve start to come down as the spring retracts and the counterweight force will open the valve up.