







Overview of Pressure Transducer Theory

Read a pressure transducer waveform just like the following: At 0 degrees Top Dead Center the BANG or Power Stroke is occurring. The line is up high because the cylinder is at its most compressed when the spark event occurs. At 180 degrees Bottom Dead Center the exhaust valve opens as long as engine timing is correct.



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	Using Emissions Analysis to Diagnose Vehicles
Gas	Engine Condition
CO ₂	measure of combustion efficiency
со	rich mixture, too much fuel, not enough air
O ₂	lean mixture, too much air, not enough fuel
NOx	high combustion temperatures, high engine load
нс	unburned fuel, leaking fuel or vapors
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