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VVT-i, or Variable Valve Timing with intelligence, is an automobile variable valve timing technology developed by Toyota. The Toyota VVT-i system replaces the Toyota VVT offered starting in 1991 on the 5-valve per cylinder 4A-GE engine. The VVT system is a 2-stage hydraulically controlled cam phasing system. VVT-i, introduced on the 1JZ-GTE/2JZ-GTE engine in 1996, varies the timing of the intake valves by adjusting the relationship between the camshaft drive and intake camshaft. Engine oil press

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VVT-i - Wikipedia

(VVT-i) – Variable Valve Timing is a 2-stage hydraulically controlled cam phasing system. As engine technologies improve and become less expensive, (VVT) continues to improve performance and economy. Manufacturers have now adopted various (VVT) design approaches and technologies.

(VVT-i) - Variable Valve Timing - How Does It Work

The variable valve timing system is comprised of various mechanical and hydraulic components to create the lift effect for the valves. This is how the engine can respond quickly to the demands of the driver. At times when engine performance is not needed, you can still maintain great efficiency in the engine.

4 Advantages of Variable Valve Timing (VVT) Engines

VVT-i, or Variable Valve Timing with

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intelligence, is an automobile variable valve timing technology developed by Toyota, similar to the i-VTEC technology by Honda. The Toyota VVT-i system replaces the Toyota VVT offered starting in 1991 on the 4A-GE 20-Valve engine. Perodua use this technology and convert the name to DVVT(Dynamic Variable Valve Timing). The VVT system is a 2-stage hydraulically controlled cam phasing system.

HOW TOYOTA VVTi ENGINE WORKS?

-Variable Valve Timing ...

After multi-valve technology became standard in engine design, Variable Valve Timing becomes the next step to enhance engine output, no matter power or torque. As you know, valves activate the breathing of engine. The timing of breathing, that is, the timing of air intake and exhaust, is controlled by the shape and phase angle of cams.

Variable Valve Timing (VVT)

Modern engines are designed to have

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more power with lower fuel consumption. Currently, on the Ugandan market, Toyota's VVT-i engine is most noted by pushers of this view. But the technology has since been adopted by other manufacturers with similar technologies such as BMW and Honda. Proponents of the VVT-i fuel efficiency are right of course.

TECH NEWS: Saving fuel with VVT-i engine

Few innovations under the hood have become as ubiquitous as variable valve timing. Automakers brag about it all the time, but seldom explain it. So Brian Coo...

Car Tech 101: Variable valve timing explained - YouTube

Variable Valve Timing (VVT) is a product designed to enhance output performance, gas emission, and fuel efficiency by optimally controlling the timing of engine intake and exhaust valve opening and...

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What is Variable Valve Timing VVT?How VVT Work? - YouTube

- Variable Valve Timing (VVT), is a generic term for an automobile piston engine technology
- VVT allows the lift or duration or timing (some or all) of the intake or exhaust valves (or both) to be changed while the engine is in operation
- Two stroke engines use a power valve system to get similar results to VVT.

VARIABLE VALVE TIMING INTELLIGENT SYSTEM

VTEC and VVT-i systems were developed by Honda and Toyota respectively in order to improve the efficiency of car engines. VTEC (Variable Valve Timing and Lift Electronic Control) is a valvetrain system developed by Honda that allows engines to achieve turbo level specific output without the bad fuel efficiency that turbocharging normally introduces. VVT-i (Variable Valve Timing with ...

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VTEC vs VVT-i - Difference and Comparison | Diffen

Vvt systems are more intricate and do add to the cost of engine design and building, but as with most emerging technologies, every generation has proven to be more reliable and cost-effective. One thing is certain—it pays off with improvements in emission control, fuel economy, and power. Shop Engine Timing. Last updated July 12, 2018

What Is Variable Valve Timing? - Advance Auto Parts

With VVT-i, engines can move air in-and-out at the same rate as the flow of traffic and actual driving conditions, while also reflecting engine load and rotation. In addition to VVT-i's current valve timing control, Valvematic's new variable valve technology provides continuous valve lift control. This is new, and great for both drivers and engines. You might wonder how engine speed can be controlled if the throttle valve is gone or inactive.

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All about Toyota's Valvematic engine system

VVT-i is comprised of three major components: (1) the electronic control unit (ECU), which calculates optimum intake valve timing based on engine operating conditions; (2) the oil control valve (OCV), which controls hydraulic pressure under the ECU's instruction; and (3) the WT pulley, which continuously changes the intake valve timing using hydraulic pressure.

Toyota Develops New VVT-i Engine Technology | Toyota Motor ...

This engine uses continuously variable timing for the inlet valves. In internal combustion engines, variable valve timing (VVT) is the process of altering the timing of a valve lift event, and is often used to improve performance, fuel economy or emissions. It is increasingly being used in combination with variable valve lift systems.

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Variable valve timing - Wikipedia

Variable valve timing and lift make the engine more responsive to throttle inputs and all such engines generally have better low end power in comparison to the engines that do not use this technology. Another great benefit is the improved fuel efficiency and reduced emissions.

What is VTVT / VVT / i-VTEC / VVT-i?- AutoPortal | V tec ...

With VVT-i, engines can move air in-and-out at the same rate as the flow of traffic and actual driving conditions, while also reflecting engine load and rotation. In addition to VVT-i's current valve timing control, Valvematic's new variable valve technology provides continuous valve lift control.

Valvematic: The 2014 Toyota Corolla's Latest Gadget

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And that's with either of the two gasoline engines offered, V6 or V8. While most of the Ram 1500's electrical systems still use traditional 12-volt power, eTorque is actually a 48-volt system .

2019 Ram 1500 eTorque system: What it is and how it works

VVT-i stands for Variable Valve Timing with intelligence. The technology was developed by Toyota to automatically and continuously varies the timing of the intake valves to improve engine performance. The "intelligence" aspect of VVT-i refers to the systems ability to

