



## 'Ask Hanip'

I recently came across a couple of internet articles about Toyota's latest engine technology known as Dual VVT-i and I was a little puzzled as to how this differed from our conventional VVT-i engines. I was hoping if you can enlighten us on this new acronym and what it means to us drivers. Thanks! – Ace

**Hanip:** Hi Ace, actually Toyota's Dual VVT-i engines have been around longer than you did expect. In 1998, the Dual VVT-i which adjusts both intake and exhaust camshafts was first introduced in the RS200 Altezza's 3S-GE engine.

Dual VVT-i is also found in Toyota's new generation of V6 engines in Japan, including the Estima. Dual VVT-i is also used in the Toyota Corolla (1.6 dual VVT-i 124bhp) though its not confirmed if we will be getting the engine variant here.

Other Dual VVT-i engines include the upcoming 1.8L 2ZR-FE I4, which will see implementation in Toyota's next generation of compact vehicles. By adjusting the valve timing, engine start and stop occur virtually unnoticeable at minimum compression, and fast heating of the catalytic converter to its light-off temperature is possible, thereby reducing HC emissions considerably.

