

toyota vvt i engine pdf

Common features of this series. The NR series uses aluminum engine blocks and DOHC cylinder heads. It also uses multi-point or direct fuel injection and has four valves per cylinder. The 1NR, 2NR, 3NR, 4NR, 5NR, 6NR, and 7NR engines have Dual VVT-i standard and the 8NR engine has VVT-iW, enabling it to operate in the Otto cycle as well as a modified-Atkinson cycle to improve thermal efficiency.

Toyota NR engine - Wikipedia

ENGINE " 1ZZ-FE ENGINE 165EG34 Plunger To VVT-i Controller (Advance Side) To VVT-i Controller (Retard Side) Connector Sleeve Spool Valve Spring Drain

6. VVT-i (Variable Valve Timing-intelligent) System

T-SB-0041-13 March 15, 2013 Page 6 of 16 Brief Engine Knock/Rattle Noise at Cold Startup (1AR/2AR) Repair Procedure (Continued) F. Rotate the crankshaft counterclockwise by 10 and loosen the tension of the chain. G. Remove the timing chain cover plate.

T-SB-0041-13 March 15, 2013 Brief Engine Knock/Rattle

A V6 engine is a V engine with six cylinders mounted on the crankshaft in two banks of three cylinders, usually set at a 60 or 90 degree angle to each other. The V6 is one of the most compact engine configurations, usually ranging from 2.0 L to 4.3 L displacement, and it is shorter than the inline 4. Because of its short length, the V6 fits well in the widely used transverse engine front-wheel ...

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