

Building a system of tests and diagnostics for the Toyota Vitz car engine electrical system.

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Abstract: In the context of increasing demands for vehicle safety and operational performance, this topic focuses on building an evaluation and diagnostic system for faults in the engine electrical system of the Toyota Vitz. The main objective is to develop a comprehensive methodology encompassing both theory and experimentation to assist engineers and maintenance personnel in quickly identifying and resolving issues. By applying advanced technologies in practice, the topic aims to contribute to improving after-sales service quality at dealerships and enhancing vehicle operational performance. This result not only helps improve the reliability of the engine system but also makes the periodic maintenance process more efficient.

Keywords: Engine electrical system, fault diagnosis, Toyota Vitz car, inspection techniques, car maintenance