

Building a system of tests and diagnostics for the Toyota 3S-FE engine electrical system.

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Abstract: This study focuses on building and deploying a diagnostic testing system for the electrical engine system of the Toyota 3S-FE vehicle. This topic was chosen to meet the practical needs of the automotive industry to ensure the quality and operational safety of engines. The research methodology includes synthesizing theoretical knowledge with results from direct experiments on the engine system. The expected outcome is an effective diagnostic testing system that helps improve the quality of maintenance services and enhance vehicle operational performance. This topic not only contributes to the development of quality control technology in the automotive manufacturing industry but also opens up new application opportunities.

Keywords: Diagnostic system, Toyota 3S-FE engine, Electronic testing, Automotive industry, Applied research