

# **Building a system of tests and diagnostics for the Toyota Vitz body electrical system.**

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**Abstract:** This topic aims to research and build a system for evaluating the performance of electronic devices on the Toyota Vitz car body. The context of the topic arises from the reality that the loss and damage of electronic components during car usage is a concerning issue. Accordingly, it proposes a system diagnostic method based on experimental tests to ensure safety and save repair costs. The research method combines theory with experimentation to build predictive models for failures. Expected results will provide effective solutions for monitoring and maintaining the electronic system in cars, contributing to improving the quality of maintenance services in the automotive industry.

**Keywords:** Operating mode, system diagnostics, electronic equipment, Toyota Vitz, inspection method