

Building a power block test for the motor control circuit in the electric power steering system of a passenger car.

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Abstract: This topic proposes building and conducting power block tests for the electric motor control circuit in the electric power steering system of passenger cars. The research context is driven by the need to improve operational performance and enhance driving safety. The objective is to identify and optimize technical parameters to enhance the system's responsiveness and stability. The methodology includes both theoretical research on electronic dynamics and the implementation of practical tests on a vehicle model. The expected results of this topic will contribute to the development of autonomous driving technology and create an improved solution for modern power steering systems.

Keywords: electric power steering system, motor control circuit, power block testing, operating performance, driving safety