

Simulation of the distance sensor system on the Ford Explorer line

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Abstract: This topic focuses on simulating a distance sensor system for automobiles, specifically the Ford Explorer model. The reason for choosing this topic is based on the high demand for traffic safety and operational performance of modern vehicles today. The research objective is to build and evaluate the accuracy of the sensor model through a method combining theory with experimentation. Through the research process, the topic aims to contribute to improving autonomous safety systems by providing an effective technical solution. Expected results will include both experimental data and an assessment of the system's feasibility.

Keywords: Sensor system, distance, simulation, Ford Explorer, traffic safety