THE DEVELOPMENT OF PRACTICAL LEARNING MEDIA OF DISTRIBUTORLESS IGNITION (DLI) SYSTEM AT AUTOMOTIVE FIELD

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ABSTRACT

This study aims to: (1) produce a product development learning media for practicing Distributorless Ignition (DLI) system in the automotive field, (2) find out the feasibility of DLI system practical instructional media products. The research using research and development (RnD) methods refers to the steps of product development by Borg and Gall (2007) through 10 stages. To find out the feasibility of the product being developed, a questionnaire instrument was used to explore the responses of instructional media experts, material experts, and user respondents. The instrument uses a semantic scale with answer choices 1 to 8. In addition to giving an assessment of the feasibility of the media, respondents also provide input as a basis for improving the learning media that is made. Based on the results of the research and development that has been carried out, the results are obtained: (1) The results of learning media development products in the form of educational displays that display a systematic arrangement of components of the DLI ignition system on acrylic boards accompanied by symbols of electrical components. These components can be assembled into a DLI ignition system that can be simulated as well as in a real vehicle. (2) The results of the feasibility analysis of the product being developed said that the educational display developed was suitable for learning. Judging from the response of material experts, the mean score was 7.59 (very feasible), the response of media experts obtained a score of 7.06 (very feasible), the average score of the response of small class users was 6.14 (feasible) and the scores of large class respondents were 6.80 (very decent). Thus, the educational role developed can be used to support the learning of DLI ignition system practices.**Keywords**: Simulator, tutorial video, ESA Electronic Ignition System.

Kata Kunci: *Educational media, Distributorless Ignition (DLI) system*