ABSTRACT

E-TUTORIAL FOR DETECTING DAMAGE TO ELECTRONICAL AND MECHANICAL WITH PROBLEM SOLVING MOTORCYCLES 4 STROKE INJECTION

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If we know the first engine with a carburetor system now with the development of ageespecially those in the automotive world appears replacement carburetor engine thatwe know called injection machines. Motorcycle with the use of this system is a big concernof the world motor manufacturers because a lot of benefits to be had, especially the claim that the injection engine can make economical fuel consumption of the motorcycle itself.

Tutorial help or guidance is the nature of academic learning by tutors to help smoothe process of self-study by individuals or groups of related teaching materials. The system now used by the perpetrators of tutoring in Indonesia is still largely limited to information systems tutor alone therefore, required more sophisticated information systems and easily can handle the tutoring. E-Tutorial is one method that can help the implementation of tutoring of more sophisticated and easier to use. To realize thee-tutorial, then made the E-Tutorial for detecting damage to electronical and mechanical with problem solving motorcycles 4 stroke injection.

A tree is a hierarchical structure consisting of nodes (vertices) that store information or knowledge and the branches that connect nodes. Branch also called links or edges and nodes called vertices. To avoid the possibility of tracking the process of a node is repeated, then used a tree structure.

This created a system that will use the method of Breadth First Search. Breadth First Search algorithm is conducting a broad search for a node in a preorder visit of visiting a node and then visit all the nodes neighboring the first node. In the procedure and test for the pure, the response function is simply yes or no test.

Keywords: Mesin Injeksi, E-Tutorial, Pohon Pencarian, Breadth First Search.