

## **FUEL SYSTEM APPLICATIONS IN THE MACHINE OF DAIHATSU CLASSY G102 VARIANT SG 1.300 TYPE WITH EFI SYSTEMS USING ECU TOYOTA SOLUNA 5A-FE SERIES**

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### **ABSTRACT**

The EFI fuel system applications performed on the engine stand of Daihatsu Classy, aims to find ways of making fuel EFI system applications, determine the necessary components and know the performance of the machine after the applications process.

The applications process of EFI fuel system started by determining the concept of applications using the D-Jetronic injection model. The concept of applications was divided into several phases, namely, the identification of components, design process, equipments and materials of requirement analysis, applications and testing process. Identification of the components performed to determine the type of components to be used in the applications process because in this applications process used the former components, followed by structuring the design process of components, wiring diagram, after that determining the equipments and materials that will be used in the applications process. The applications process conducted by doing the preparation, installation of fuel pump in-tank type of tank that has been made a holder pump in it, fuel filter installation, the installation of the unit injectors, regulators, and wiring diagram applications on the engine stand which referred to the manual of 5A-FE Soluna machine repair. Furthermore, the fuel system component testing and engine performance, the tests performed in the Automotive workshop of FT UNY.

The conclusions of the EFI fuel system applications are, first, the arrangement of components design, the arrangement of the electrical circuit, test design and the design of a holder of fuel pump. Second, the process of EFI fuel system applications which were installation of the injector units, regulators, making a holder of the tank of fuel pump, fuel pump and installation of wiring diagram applications on engine stand. Third, the performance of the EFI fuel system. The fuel system can work properly. It is known from the test results that have been done before. There is a weakness in the exhaust emissions exceed the threshold.

**Keywords:** Applications, fuel system.