

Abstract: Mobile-based Vehicle Fault Management System with the OBD-II

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Abstract

For their safety, it is always necessary for drivers to check and understand their own vehicle's status. Such a case, however, most drivers would like to directly contact a vehicle specialist to fix the problems, as a result, they are forced to waste their time and money. Even though they can check their vehicle's status by themselves by using various functions of their own smart phones due to rapidly developed and improved IT technology, most of them mind using the existing smart phone vehicle diagnostic systems because of the burden they have to study the professional knowledge to know and understand the vehicle's status to use properly. As a result, most users do not recognize the need of vehicle diagnostic tools.

In this study, on the iPhone, we implemented a new vehicle consumable diagnostic management tool, which shows the OBD-II information receiving through OBD-II protocol conversion WiFi connector to the users in real-time so that they can check and understand the vehicle's status such as the consumable exchange cycle, the problem diagnostic information and/or etc. in real-time and can fix them easily on their own

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