ABSTRACT

At this time the vehicle is very important for life. With Motorcycles, you perform a variety of life activities that require a high level of mobility. Motorcycle in order to continue to function properly, you must know the bike is good condition. By using this device, the owner can determine the condition of the motorcycle form of SMS to be received early care users and take care act (pemanasam motorcycle engine) from long range for the vehicle is within range of a GSM provider. So that the condition can be monitored motorbike with SMS will be received early treatment motorcycle users.

This device consists of two parts, namely the vehicle and user parts. Consists of vehicle parts, GSM, control on / off the vehicle and microcontroller. While the user consists of a GSM gateway sms. Motorcycle users can provide instructions for motorcycles conditions via mobile phones.

When the microcontroller to get instructions from the sensor that tells no early warning parameters are not appropriate. These instructions are sent via GSM to the vehicle and received a SMS that tells the user when one of the early warning parameters do not fit on a motorcycle, the motorcycle warm up beforehand and can determine the condition of the motorcycle after motorcycle warming finish for 3 minutes via SMS will be accepted by users. The parameters studied were early warning and battery motorcycle lights, while the parameters that can be monitored is, that the remaining fuel and the amount of final odometer. Thus the owner can determine the condition of the motorcycle and motorcycle maintenance action further to the bike shop in the time you want.

Keywords: microcontroller, GSM, SMS, on, off