

ABSTRACT

Prototype Detector For Odometer and Tyre Leaning For Travel Vehicle and Bus Company Based On Microcontroller is a useful prototype to give warning to do service and spooring balancing to user. When the vehicle reaches 4000 km distance, the odometer detector composed of Hall effect sensor and magnet will send data to Xbee Router after Arduino Mega processed, so even with the tire slope and there will be a notice to the user in the form of sms to do the Service. When the vehicle enters the garage and parks the tire check, the tilt sensor will detect the tilt slope, if the tire slopes to 3° then the data will be sent to Xbee Router after the Arduino Mega process and will notify sms to the user for spooring balancing. In this prototype the tire diameter is 5 cm every time a full rotation, then the resulting distance is 0.15 m

Keywords: Hall Effect Sensor & Magnet, Leaning Sensor, Xbee, Arduino Mega