ANALYSES TRANSMISSION AND STEERING SYSTEM
CITY CAR
(Study case on Tawon Car)

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Abstrack

City car is designed for use in city area. It’s small size enable it to maneuver in traffic jam and only needs small parking space. The other advantage of city car is it small engine capacity that very efficient on fuel use. Tawon is one of national city car besides Arina and GEA in Indonesia. This car which is manufactured in Rangkasbitung, has 650 cc engine capacity almost similar with GEA. This car is using CNG power resources and meets Euro III standardization about friendly environment. For commercial use, Tawon is another alternative for BAJAJ because it’s relatively economic price and meets with local citizen capability.

In the first development Tawon’s design is not maximal yet and still research by technician, it’s final result need to be reviewed technically. In this research we will analyze on transmission and steering system. First step on this research is to review transmission condition system which is on 3rd and 4th gear the power has showed slightly drop. Analyses also slightly shown uncomfortable on driving. It’s caused by uncreated ackerman angle maneuver. The next step is collecting data for analyses. Last step is analyse according to available data.
Analyses result shows that this car need to repair. The repair covering tie-rod’s height and length, balance wheelbase size, repairing bolljoint and knuckel position and reseting toe have to negative because of front wheel drive. For transmission there is no problem because of graphic trend are maeth with teorical book.

**Keywords**: transmission system steering, engineering, Tawon car