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M V M**Mobility Vehicle Mechanics**

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¹ CENTRAL COMMUNICATION UNIT FOR VEHICLES WITH DIESEL ENGINE

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Abstract

In modern vehicles, electronic control units, which exchange information in order to utilize the resources more efficiently, are used for control of operation of some subsystems. A special central communication unit, which directs and filters information gained by data exchange between subsystems' control units, is used to synchronize the subsystems. The central communication unit is specific to every model of the vehicle because it integrates all subsystems in a whole providing necessary information for operation of all subsystems and meeting specific demands of vehicle model. Hardware and software realization of electronic control unit built in Zastava Florida vehicle with diesel engine is described in the paper.

Key words: communication, electronic control unit, CAN protocol.

CENTRALNA KOMUNIKACIONA JEDINICA ZA VOZILA SA DIZEL MOTOROM

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Rezime: U savremenim vozilima za upravljanje radom pojedinih podsistema koriste se elektronske upravljačke jedinice koje međusobno razmenjuju informacije u cilju efikasnijeg korišćenja resursa. Za sinhronizaciju podsistema koristi se posebna centralna komunikaciona jedinica koja usmerava ili filtrira informacije dobijene razmenom podataka između upravljačkih jedinica podsistema. Centralna komunikaciona jedinica je specifična za svaki model vozila jer integriše sve podsisteme u celinu obezbeđujući neophodne informacije za rad svih podsistema i zadovoljavajući specifične zahteve modela vozila. U radu je opisana hardverska i softverska realizacija elektronske komunikacione jedinice ugrađene u vozilo Zastava Florida sa dizel motorom.

Ključne reči: komunikacija, elektronska upravljačka jedinica, CAN protokol.

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