

DEVELOPMENT OF AUTOMATIC CLUTCH PEDAL OPERATING SYSTEM

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Abstract

Automatic clutch pedal operating system (Auto clutch) is the optimal mid of the automatic transmission and manual transmission system of the car. Auto clutch system consists of electronic control unit (ECU) connected with gear shifting sensor and clutch pedal operating electric motor. The dedicated ECU controls all the functioning of the auto clutch. The said ECU receives and process the various types of information such as operator shifting the gear, engine speed (rpm), braking status (i.e. whether brake is applied or not), vehicle direction (e.g. forward or reverse). The processed information is used to give the signal to the clutch pedal operating electric motor. The motor generates the necessary clutch operating force and clutch pedal is pressed or released. This particular system will eliminate the stress and fatigue of the driver while driving on the busy roads, also helpful to the physically disabled and aged peoples.

Keywords : Auto clutch, Electronic control unit, Sensor