DESIGN & ANALYSIS OF IMPROVISED CLUTCH PEDAL LINKAGE MECHANISM USING CATIA V5

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ABSTRACT

In the contemporary world of nowadays uncountable innovations has embark within the automobile sectors within the gift decades. The expected speed demand of the vehicle guides the foot pedal to interact or disengage the clutch plate. The linkages of foot pedal are the important elements that connect and actuate the hydraulic cylinder that produces the clutch plate to be engaged or disengaged. In serious vehicles because the foot pedal too removed from clutch plate the foot pedal linkage mechanism occupies extra space and there's time delay in transmission. Within the existing system because the linkages are too long the force applied is additional however the output force are less. During this improvised linkage mechanism, the dimensions of the linkages and also the position of the hydraulic cylinder is changed and analyzed with CATIA V5 software. The theoretical calculations also are disbursed to search out the force in each the changed and within the existing system.

KEYWORDS: Clutch Pedal, Linkages, CATIA, Driver’s Comfort & Torque

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