ABSTRACT
This study focuses on the product design manual control of transmission of motorcycle on the research and improved. Propose an adjustable Return of Rotary improve the motorcycle transmission design method. Main improvement utilize before transmission drum into neutral proper position protruding a stop block and a solenoid jamming each other in the transmission, join on one operation one. Its function for make the Return motorcycle can be similar ride times safe gearshift way at a high speed. At the same time, can have Rotary convenience of the gearshift way. Reach operate the more human interest choose and safe. Offer drivers the excellent choice changes the function of the gearshift way, and can depend on road conditions choose proper to the gearshift way.

This research entity is make use SYM 4-drive of Wildwolf as the improvement. Use Solid Works to draw the intact association to pursue at first. Confirm it cooperates with the state. finally, the experiment of the oil to solenoid. Experimental result show his way feasible voltage of comparing the transition region in the oil finally.

Keywords : Rotary, Return, Transition, Solenoid

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