THE DESIGN AND BUILD COMBINED BRAKE SYSTEM (CBS)
ON MOTORCYCLE KAWASAKI NINJA 150R

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Abstract

Braking system becomes one of the most important things of motorcycle since its one of the factor that decides the safety of motorcycle. The faster that motorcycle can run, the better braking system needed. Good braking system needed in order to stop or slowing the motorcycle.

On conventional motorcycle, the braking system between front and rear are separated. In theory, the braking need for front and rear are different for one person and two person. That’s why, developed Combined Brake System (CBS) which combined the front and rear braking system. On this CBS, there is a control valve, which can control the pressure that applied on the rear wheel. So that can be adjust between the braking need with the given pressure.

For the condition one person (68 kg), the best condition is the valve closed 47.5°. And for two persons condition (@ 68 kg), the best condition is the valve closed 21.5°.

Keywords: braking system, CBS, valve, pressure dividing.