ANALISA PENGARUH VARIASI SUDUT *DRIVE PULLEY*, BERAT *ROLLER*, DAN GAYA PEGAS *SPRING DRIVEN* PADA SISTEM CVT SEPEDA MOTOR 4 LANGKAH 110 CC TERHADAP TORSI DAN DAYA (ANALYSIS OF THE EFFECT OF VARIATIONS PULLEY DRIVE ANGLE, ROLLER WEIGHT, AND SPRING DRIVEN FORCE ON A 110 CC 4-STROKE MOTORCYCLE CVT SYSTEM ON TORQUE AND POWER)

Commision Guide, Dicky Adi Tyagita, ST, MT.

Eko Mega Purnomo
Automotive Engineering Study Program
Engineering Department

ABSTRACT

Inside the CVT, there are face comp movable drive, roller, and spring driven components. To increase torque and power on automatic motors, it is necessary to choose various components of face comp movable drives, rollers, and spring drives. The purpose of this research was to determine the value of torque and power produced by the variation of the three components and to determine the effect of the component on the value of torque and power. This research was conducted at the Yamaha Anugrah Sejahtera Arjasa workshop. The method used is an analysis of the torque and power values that are read through the dynotest engine based on the 8 specified variations. The result is that the highest torque value is obtained by variation 2 with a face comp movable drive component 14º, roller 11 grams and spring driven 3590 N/m with a value of 12.52 N.m. The highest power value is obtained with variation 4 with a face comp movable drive component 14º, roller 11 grams, and spring driven 4600 N/m with a value of 10.1 Hp. Can be concluded that the effect of a high angle face comp, a light roller and a light spring driven will cause the torque value to increase while the higher the face comp value, the lighter the roller and the greater the value of the spring driven spring, the greater the power value generated will be. .

Key Word : *Face Comp Movable Drive, Torque, Power*