

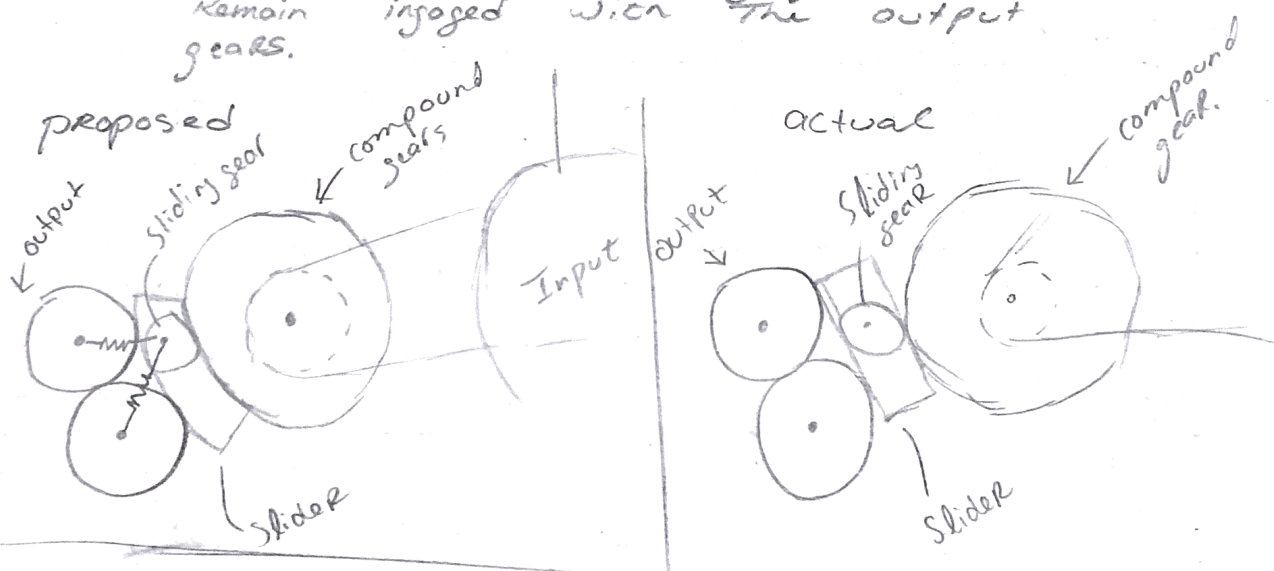
Schematic

DISCLAIMER - Calculations & Drawings
Belong to the previous group! as we
are checking & Modifying their design.

As we worked through the calculations from previous group we all arrived at the conclusion that the calculation was correct. But The Schematic that is shown is not one that matches the actual design of the gear Box its self. The Slider in which the sliding gear is curved in the Schematic, which allows for the gear to stay in constant contact with the output gear.

However The Actual Gear in the Bike is on a horizontal axis only in the X-plane. Which does not allow for enough force for constant contact when a load/input is applied.

The New design consists of a fixed slider & gear. THE NEW gear slider will be curved & have tensioners to allow for the sliding gear to remain engaged with the output gears.



AS you can see the area of contact between the actual and the proposed is significantly different. Causing slippage in the sliding gear. By fixing the slider and adding possible tensioners we believe the slippage problem is fixed.