

Overdrive / Under drive For Serpent 705

Formula

$$OD = \frac{P6}{P5} + \frac{P2}{P1} \times \frac{P4}{P3} \quad \frac{\text{Diameter Front Tyre}}{\text{Diameter Rear Tyre}}$$

Standard

$$\frac{46}{23} + \frac{16}{24} \times \frac{18}{24} = \quad \textbf{Under drive 0.990}$$

(almost 50/50)

Variation 1

$$\frac{46}{23} + \frac{16}{24} \times \frac{19}{23} = \quad \textbf{Overdrive 1.09}$$

With Front Tyre 2mm Smaller	1.05
With Front Tyre 2mm Smaller	1.03
With Front Tyre 4mm Smaller	1.02

Variation 2

$$\frac{47}{22} + \frac{16}{24} \times \frac{18}{24} = \quad \textbf{Overdrive 1.03}$$

With Front Tyre 2mm Smaller	0.995
With Front Tyre 3mm Smaller	0.978

Variation 3

$$\frac{47}{22} + \frac{16}{24} \times \frac{19}{23} = \quad \textbf{Overdrive 1.13}$$

With Front Tyre 2mm smaller	1.09
With Front Tyre 3mm smaller	1.07
With Front Tyre 4mm smaller	1.06

Courtesy – Walt Bailey / Elite RC Racing