



HB Racing - Droop Measurements



This guide explains how to measure your droop using droop blocks, this is the most consistent measurement of droop and is the preferred method over measuring shock length. The aim of this measurement is to determine how far above or below the centre of the axle is in relation to the bottom of the chassis. HB use 36mm droop blocks to account for the width of the hub. The schematic below shows how the calculation of above or below is measured.

Tip - Make sure the car is on a very flat surface and you measure to the bottom of the hub. Make sure the ride height gauge is exactly on the bottom of the hub, its easy to get the wrong measurement if you're slight off from the very bottom of the hub!

The Formula to measure axle height is:

$$\text{Axle Height (Centre of axle from Chassis)} = \text{Bottom of hub} + 6\text{mm} - \text{Block Height}$$

- * Negative Values are below the chassis level
- * Positive values are above the chassis level

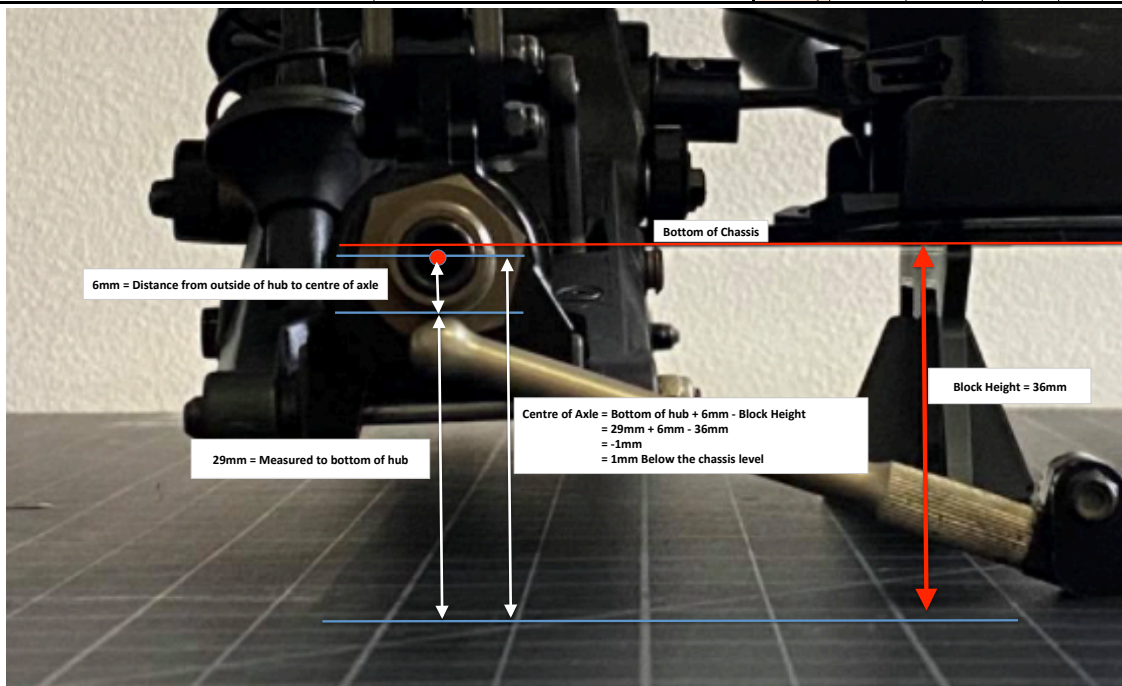
Guide	30 mm Blocks		36 mm Blocks	
	Height (mm)	Above/Below (mm)	Height (mm)	Above/Below (mm)
More Droop ↑	18	6 Below	24	6 Below
	19	5 Below	25	5 Below
	20	4 Below	26	4 Below
	21	3 Below	27	3 Below
	22	2 Below	28	2 Below
	23	1 Below	29	1 Below
	24	0	30	0
	25	1 Above	31	1 Above
	26	2 Above	32	2 Above
	27	3 Above	33	3 Above
Less Droop ↓	28	4 Above	34	4 Above
	29	5 Above	35	5 Above
	30	6 Above	36	6 Above

Example 30mm Blocks

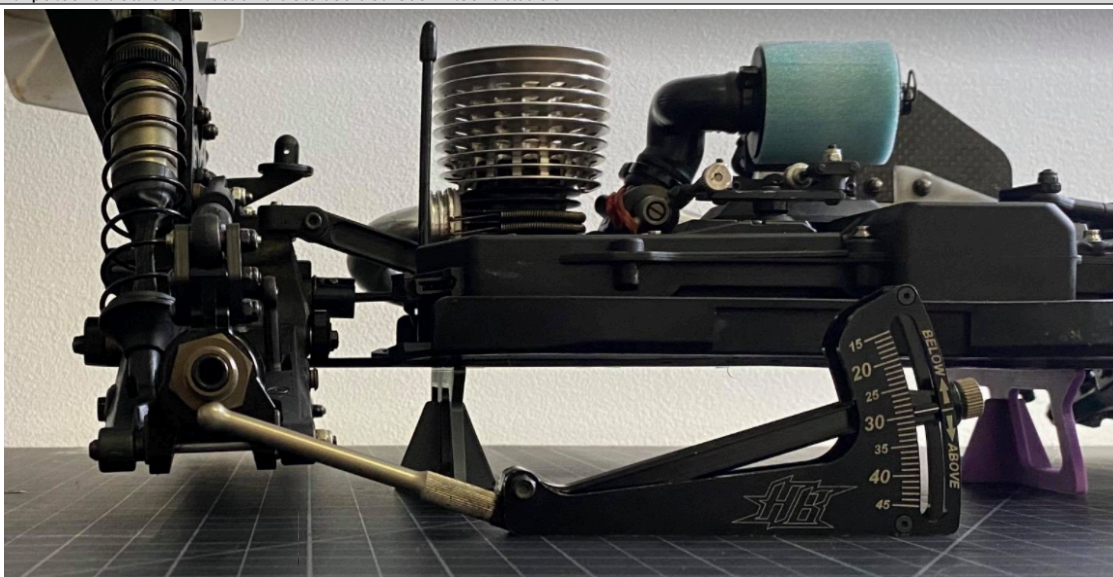
Block Height = 30mm
Distance from ground to bottom of hub = 23mm
Distance from outside of hub to centre of axle = 6mm

Worked Calculation

Axle Height = 23 + 6 - 30
Axle Height = -1 = 1mm Below the chassis level



Example below of the car on 36mm blocks with the centre of the axle 0.5mm below chassis level.



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