Albion Model H 4 Speed Gear Ratios.

Albions heavy weight Model H 4 speed gearbox appeared in the early 1930s and remained basically unchanged internally up to the late 1950s. Its variations included 3 speed, 3 speed with reverse, and 4 speed. The 3 speed with reverse was fitted to the likes of delivery carts and motorised railway velocepedes (commonly referred to as 'railway jiggers'). Smaller motorcycle manufacturers like Excelsior (including the Manxman) utilised Albions model H but one of the major users was Royal Enfield. They used them in their heavy weight models from the 1930s 350 and 500 singles up to the postwar 500, and 700 twins, only changing to the HG model around 1958.

Given the versatile nature of the Model H a selection of gear ratios were also available ranging from wide ratio for commercial applications (and motorcycle trials machines) to close ratio (for racing).

This is a list of the more common ratios (wide and close) that were used in different applications for motorcycles.

	Number of Teeth on Gear Pinions													
Ref	Mainshaft			Layshaft				Internal Ratios						
No.	1st	Slider	Тор	Ist	2 nd	3 rd	Тор	1st	2nd	3rd	Тор	Remarks		
STD	30	25 x 21	18	18	23	27	30	2.78	1.8	1.3	1	Standard (including Scrambles)		
1	27	24 x 22	21	21	24	26	27	1.65	1.28	1.09	1	Very Close Ratio - No Kick Starter.		
2	28	24 x 22	21	20	24	26	27	1.8	1.28	1.09	1	Close Ratio - No Kick Starter.		
3	27	24 x 22	20	21	24	26	28	1.8	1.4	1.18	1	Close RatioNo Kick Starter.		
5	29	24 x 22	20	19	24	26	28	2.13	1.4	1.18	1	No Kick Starter.		
12	31	26 x 21	17	17	22	27	31	3.3	2.15	1.14	1	Wide Ratios		
13	30	26 x 21	17	18	22	27	31	3	2.15	1.4	1	Standard on Trial Models		
14	31	25 x 21	17	17	23	27	31	3.3	1.98	1.4	1	As 12 but higher 2nd		
16	27	24 x 21	18	21	24	27	30	2.14	1.67	1.3	1	Close Ratio with kick starter		
	H12/	H11/	H9/	H17/	H18/	H19/	H20/	Refer to the Parts illustrations of the gears - Part Number plus No. of Teeth eg - H12/27 (27 teeth)						

Refer to the **Albion 4 Speed Parts List** for the illustrations of the above gears.