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**Support Bulletin Board:** [www.ginettaheritage.co.uk/phpbb/](http://www.ginettaheritage.co.uk/phpbb/)

## Gear Ratios/Speed in Gear Charts

Assumptions: Diameter of 175/70/13 is 22.5", diameter of 185/60/13 is 21", Pi is 3.141, and the speeds shown are given by the equation 60,000/tyre revs per mile x gear ratio.. Shaded areas show envisaged or proven maximum attainable speeds due to torque and power limitations

**TABLE 1. Suggested ratios (185/60/13 tyres)**

		Speed per 1000 rpm							
Ratios		3	4	5	6	7	8	9	10
Std/close	<b>1st 16.6</b>	11.3	15	18.8	22.5	26.3	30	33.8	37.6
Std/close/ rally/ Group 6	<b>2nd 8.91</b>	21	28	35	42	49	56	63	70
Close/rally	<b>3rd 6.18</b>	30.3	40.4	50.5	60.6	70.7	80.8	90.9	101
Suggested	<b>4th 4.86</b>	38.5	51.3	64.2	77	89.9	102.7	115.5	128.4

**TABLE 2. Standard box and 175/70s on the rear**

		Speed per 1000 rpm							
Ratios		3	4	5	6	7	8	9	10
Std/close	<b>1st 16.6</b>	12.1	16.1	20.2	24.2	28.2	32.3	36.3	40.3
Std/close/ rally	<b>2nd 8.91</b>	22.5	30	37.6	45.1	52.6	60.1	67.6	75.1
Std/circuit	<b>3rd 5.7</b>	35.2	47	58.7	70.5	82.2	94	105.7	117.4
Std	<b>4th 4.14</b>	48.5	64.7	80.8	97	113	129.3	145.5	161.7!!

**TABLE 3. As above but with 185/60s fitted.**

		Speed per 1000 rpm							
Ratios		3	4	5	6	7	8	9	10
	<b>1st 16.6</b>	11.3	15	18.8	22.5	26.3	30	33.8	37.6
	<b>2nd 8.91</b>	21	28	35	42	49	56	63	70
	<b>3rd 5.7</b>	32.8	43.8	54.7	65.7	76.6	87.6	98.5	109.5
	<b>4th 4.14</b>	45.2	60.3	75.3	90	105.5	120.6	135.6	150.7

TABLE 4. Pick and mix, assuming 185/60/13 tyres. Bold figures indicate helical gears i.e. not straight cut.

	Speed per 1000 rpm							
Ratios	3	4	5	6	7	8	9	10
Jack Knight 1st 16.5	11.3	15.1	18.9	22.7	26.5	30.2	34	37.8
Rally 1st 14.95	<b>12.5</b>	<b>16.7</b>	<b>20.9</b>	<b>25</b>	<b>29.2</b>	<b>33.4</b>	<b>37.6</b>	<b>41.7</b>
Circuit /Rally X/ Group 6 1st 13.53	<b>13.8</b>	<b>18.4</b>	<b>23.1</b>	<b>27.7</b>	<b>32.3</b>	<b>36.9</b>	<b>41.5</b>	<b>46.1</b>
Jack Knight 1st 3.56	Very similar to the above							
Jack Knight 1st 2.75	14.7	19.6	24.5	29.4	34.3	39.1	44	48.9
Jack Knight 1st 11.5	16.3	21.7	27.1	32.6	38	43.4	48.8	54.3
Jack Knight 1st/2nd/ Rally X 2nd 10.65	<b>17.6</b>	23.4	<b>29.3</b>	35.1	<b>41</b>	46.9	<b>52.7</b>	58.6
Jack Knight 1st/2nd 10.35	18.1	24.1	30.1	36.2	42.2	48.2	54.6	60.3
Jack Knight 2nd 9.7	19.3	25.7	32.2	38.6	45	51.5	57.9	64.3
Jack Knight 2nd 9.3	20.1	26.8	33.5	40.3	47	53.7	60.4	67.1
“Offered” 2nd 8.63	<b>21.7</b>	<b>28.8</b>	<b>36.1</b>	<b>43.4</b>	<b>50.6</b>	<b>57.8</b>	<b>65.1</b>	<b>72.3</b>
Jack Knight 2nd 8.5	22	29.2	36.7	44	51.4	58.7	66	73.4
Circuit 2nd 7.93	<b>23.6</b>	<b>31.5</b>	<b>39.3</b>	<b>47.2</b>	<b>55.1</b>	<b>62.9</b>	<b>70.8</b>	<b>78.7</b>
Jack Knight 2nd /Rally X 3rd 7.8	24	32	40	48	56	64	72	80
Jack Knight 2nd 7.55	24.8	33	41.3	49.6	57.8	66.1	74.4	82.6
Jack Knight 2nd 7.15	26.2	34.9	43.6	52.4	61.1	69.8	78.5	87.3
Jack Knight 2nd/3rd 6.90	27.1	36.2	45.2	54.3	63.3	72.3	81.4	90.4
Group 6 3rd 6.8	<b>27.5</b>	<b>36.7</b>	<b>45.9</b>	<b>55</b>	<b>64.2</b>	<b>73.4</b>	<b>82.6</b>	<b>91.7</b>
Jack Knight 2nd/3rd 6.55	28.6	38.1	47.6	57.2	66.7	76.2	85.7	95.3
Jack Knight 3rd 6.3	29.7	39.6	49.5	59.4	69.3	79.2	89.1	99
Jack Knight 3rd/ Rally X 4th 6.0	31.2	41.6	52	62.4	72.8	83.2	93.6	104
Jack Knight 3rd/4th 5.77	32.4	43.3	54	64.9	75.7	86.5	97.3	109.1
Jack Knight 3rd/4th 5.53	33.8	45.1	56.4	67.7	79	90.3	101.5	112.8
Jack Knight 3rd/4th 5.3	35.3	47	58.9	70.6	82.4	94.2	105.9	117.7
“Offered 3rd/4th”5.26	<b>35.6</b>	<b>47.4</b>	<b>59.3</b>	<b>71.2</b>	<b>83</b>	<b>94.9</b>	<b>106.8</b>	<b>118.6</b>
Jack Knight 3rd/4th 5.05	37	49.4	61.8	74.1	86.5	98.8	111.2	123.5
Group 6 4th 5.04	<b>37.1</b>	<b>49.5</b>	<b>61.9</b>	<b>74.3</b>	<b>86.6</b>	<b>99</b>	<b>111.4</b>	<b>123.8</b>
Jack Knight 3rd/4th 4.86	38.5	51.3	64.2	77	89.9	102.7	115.5	128.4
Jack Knight 3rd/4th 4.65	40.3	53.7	67.1	80.5	93.9	107.3	120.8	134.2
Close/Rally/ Circuit 4th 4.48	<b>41.8</b>	<b>55.7</b>	<b>69.6</b>	<b>83.6</b>	<b>97.5</b>	<b>111.4</b>	<b>125.3</b>	<b>139.2</b>
Jack Knight 4th 4.46	42	56	70	83.9	97.9	111.9	125.9	139.9
Jack Knight 4th 4.25	44	58.7	73.4	88.1	102.8	117.4	132	148.8
Jack Knight 4th 4.07	46	61.3	76.6	92	107.3	122.6	138	153.3
Jack Knight 4th 3.90	48	64	78	96	112	128	144	160