Gearbox Ratio Calculator – What Upgrade is best for me?

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Gearbox Ratio Calculator

Compare the original gearing fitted to your vehicle with the compatible Limebug Freeway Flyer, Super Flyer and Ultra Flyer upgrade options.

1 Select your original gearbox & tyre size

Vehicle year, model and engine size Select your vehicle / original gearbox1961-66 Beetle 1200cc (AA)1967-70 Beetle 1300cc (AB)1967-70 Beetle 1500cc (AC)1969-72 Beetle 1500/1600cc (AH)1971-79 Beetle 1300cc (AM)1971-74 Karmann Ghia 1600cc (AN)1973-79 Beetle 1600cc (AS / AT)1962-68 Type 3 1500/1600cc (DA)1969-73 Type 3 1600cc (DC)

1968-71 Bay Window 1600cc (CA)1972-75 Bay Window 1600cc (CE)1972-73 Bay Window 1700cc (CK)1974-75 Bay Window 1800cc (CM)1976-79 Bay Window 2000cc (CP)1976-79 Bay Window 1600cc (CU)

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Enter my own gearbox ratios

Vehicle type Select vehicle typeBeetle / Karmann Ghia / Type 3Bay Window Ring & Pinion 4th Gear

No ratios are pre-filled. Enter the ratios currently fitted to your gearbox, then the calculator will compare them with the compatible Limebug upgrades.

Tyre width (mm) Profile (%) Wheel diameter (in) Compare at RPM

Gearbox codes are shown in brackets for identification only. Enter the rear tyre size currently fitted for accurate RPM and road-speed feedback.

2 Compare the compatible upgrades

Select your original gearbox first to compare the compatible upgrade ratios.

3 Choose an upgrade for detailed comparison

Select your original gearbox first. Only compatible upgrades will be shown.

4 Original vs upgraded

Select an original gearbox and an upgrade to view the comparison. Original gearing Selected upgrade +0.0% at the same RPM

Lower gearing RPM can make longer journeys more relaxed while increasing road speed at the same engine RPM.

• Lower cruising RPM

• Reduced engine noise at a given road speed

• Greater road speed for the same engine RPM

Cruising RPM change — At the same road speed Road speed change — At the same engine RPM Overall 4th gearing — Original -> selected upgrade Original gearbox Selected upgrade View selected gearbox upgrade Email us about this gearbox Enter all three rear tyre dimensions above to calculate road speed and cruising RPM.

Cooling notice: Lower cruising RPM also means the OEM engine cooling fan rotates more slowly. Depending on engine specification, vehicle load and how the vehicle is used, additional oil cooling may be required.

Calculation note: Results are intended as a gearing comparison guide. Actual road speed and RPM can vary slightly with tyre manufacturer, tread depth, tyre pressure, load and drivetrain tolerances.

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