



Nutzfahrzeuge

Body assembly guidelines Volkswagen Nutzfahrzeuge

The LT

The following pages contain technical guidelines for custom body manufacturers/ coachwork specialists for construction and assembly of custom body-related parts and conversions.

The body assembly guidelines should be strictly adhered to if modifications are made with the intention of doing so.

Included in the Volkswagen body assembly guidelines are also the body dimension plans for our commercial vehicles Crafter, Transporter T4 and T5, Caddy and LT. These can be installed in 3 formats (TIF, DXF, IGES) for CAD programs and as PDF files.

Advice: If further technical queries about the series production vehicle arise over and beyond these guidelines, please contact your local conversion expert at your importer.

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Note: Subject to errors and technical amendments. The electronic version of the body guidelines is the decisive source of up-to-date data on body guidelines

<http://www.vwn-aufbaurichtlinien.de>

Data status October 2009

2.1 Weights/Axle Loads

The weights and axle loads (permissible/empty) for the LT attachment variants - box-type delivery van, chassis with cab/double cab, can be downloaded in the download area, together with the appropriate drawings. For the chassis with cowl (without roof and back wall), the weight has to be reduced by approx. 50 kg compared to the chassis with cab.

Note:

To ensure a sufficient manoeuvrability of the vehicle, the minimum front axle load must amount to 25% of the total weight. In the case of vehicles with loading tailboard, the minimum front axle load must amount to 30% of the total weight.

The indicated unloaded-state weights refer to the standard vehicle equipment (including driver, spare wheel, tool and filled fuel tank). Weight tolerances of +5% are permitted according to STVZO [German traffic regulations] and are to be taken into consideration, where appropriate.

If extras are installed, the permitted unloaded weight increases. If required, the final unloaded vehicle weight is to be determined using a scale.

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2.2 Single-Sided Weight Distribution

The weights must never exceed the

- permissible **total weight**
- permissible **front axle load**
- permissible **rear axle load**.

When projecting attachments, it has to be ensured that a single-sided weight distribution is avoided - in particular if fixed attachments are to be installed. If it is not possible to adhere to this recommendation, the single-sided load may only result in a maximum difference between the wheel loads of 8%.

Note:

Observe the tyre load-carrying capacity!

Example:

Permitted axle load	2.000 kg
theoretical wheel load left/right	1.000/1.000 kg
4% of this wheel load	40 kg
Permitted wheel load distribution left/right	1.040 kg/960 kg

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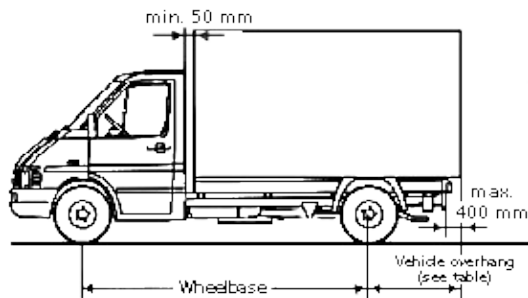
2.3 Dimensions

The chassis dimensions are shown in the drawings. The drawings are available in the "Download" section. They can be downloaded and used for planning/constructing.

When you are using tyre sizes which are differing from the standard equipment, the vehicle and chassis heights (measured from ground level) may change. In this case, it is necessary to consider these deviations during projecting.

Important note:

- The minimum distance between cab and attachment must be at least 50 mm.
- The rear overhang of the attachments may under no circumstances exceed the default values indicated in the following table.
- The distance between the rear edge of the attachment and the rear edge of the end cross-member/underrun protection must not exceed 400 mm.



[Translate to English:] **Aufbauaußenlängen und Fahrzeugüberhänge für Fahrgestelle mit Fahrerhaus/Doppelkabine (Doka):**

Modell	Karosserie	Radstand (mm)	max. Fahrzeugüberhang mit Überhangverlängerung/spezif. Unterfahrerschutz (mm)	Empfohlener Fahrzeugüberhang ohne Überhangverlängerung (mm)	Empfohlene Aufbauaußenlänge ohne Überhangverlängerung (mm)
LT 28	Fahrerhaus/-	3.000	1.500/-	1.340/-	2.980/-
	Fahrerhaus/<wbr></wbr>Doka	3.550	1.775/-	1.340/1.410	3.530/2.800
LT 35	Fahrerhaus/-	3.000	1.500/-	1.340/-	2.980/-
	Fahrerhaus/Doka	3.550	1.775/-	1.340/1.410	3.530/2.800
	Fahrerhaus/Doka	4.025	2.060	1.620/1.490	4.290/3.350

VW Nutzfahrzeuge Aufbaurichtlinien



Nutzfahrzeuge

LT 46	Fahrerhaus/-	3.550	1.775/-	1.690/1.480	3.880/2.870
	Fahrerhaus/Doka	4.025	2.060	1.940/1.840	4.600/3.700

Bei Fahrgestellen mit Doka sind größere Fahrzeugüberhänge (als empfohlen) nur nach Rücksprache mit der Volkswagen AG zulässig. Auch bei den empfohlenen Aufbaulängen ist durch eine Lastverteilungsrechnung die Einhaltung der Mindest-Vorderachslast und der zulässigen Achslasten zu überprüfen.

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