



Nutzfahrzeuge

Body assembly guidelines Volkswagen Nutzfahrzeuge

The Transporter T4

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.

Volkswagen Nutzfahrzeuge
Brieffach 2965/5
Postfach 21 05 80
D - 30405 Hannover
Fax. +49 (0)511 / 7 98 - 85 00

Online contact: <http://www.vwn-aufbaurichtlinien.de/de/kontaktformular>

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 September 2008

2.1 Permitted Weight, Unladen Weight

Dimensions and Weight

Volkswagen AG provides vehicles with front-wheel drive, such as box-type delivery van, station wagon, flatbed truck, chassis with cab, double cab and chassis with double cab, in the following weight classes: reduced net load (PR-No. 0J1). Standard net-load (PR-No. 0J2), increased net load (PR-No. 0J3) and increased net load with a permitted total weight of 2,890 kg (PR-No. 0J5). syncro vehicles are only available with standard net-load (PR-No. 0J2) and increased net load (PR-No. 0J3).

Note:

There are also chassis with increased net load (PR.-No. 0J4) available (only for sales cars and mobile homes). Permitted total weight 3,300 kg - only in front-wheel drive version!

Permitted Weight, Unladen Weight

The weight specifications in the technical data refer to the standard base vehicle equipment. According to DIN 70020, weight tolerances of +5% are permitted in production and are to be considered, where appropriate.

If extras are installed, the permitted unloaded weight increases. **The final unladen weight of the entire vehicle is to be determined using a scale.**

Petrol/diesel, 4 cylinders

Petrol/diesel, 5 cylinders

5 cylinders, TDI/VR 6 petrol engine

Petrol/diesel, 4 cylinders

Name	PR-No.	Wheelbase	Permitted total weight	Permitted axle load front	Permitted axle load rear	Unladen weight with driver	of it: on front axle	of it: on rear axle	Net load
		mm	kg	kg	kg	kg	kg	kg	kg
Box-type delivery van	0J1	2.920	2.380	1.250	1.230	1.580	1.030	550	800
Box-type delivery van	0J2	2.920	2.575	1.330	1.410	1.580	1.030	550	995
Box-type delivery van	0J3	2.920	2.785	1.400	1.490	1.580	1.030	550	1.205
Box-type delivery van ¹⁾	0J2	2.920	2.525	1.330	1.230	1.580	1.030	550	945
Box-type delivery van	0J2	3.320	2.625	1.400	1.410	1.630	1.065	565	995
Box-type delivery van	0J3	3.320	2.800	1.480	1.490	1.630	1.065	565	1.170
Box-type delivery van	0J5/1LE	3.320	2.890	1.510	1.490	1.630	1.065	565	1.260
High-space box-type delivery van	0J2	3.320	2.625	1.400	1.410	1.680	1.090	590	945
High-space box-type delivery van	0J3	3.320	2.800	1.480	1.490	1.680	1.090	590	1.120
High-space box-type delivery van	0J5/1LE	3.320	2.890	1.510	1.490	1.630	1.065	565	1.210
Station wagon	0J1	2.920	2.430	1.330	1.230	1.607 ²⁾	1.035	572	823

Station wagon	0J2	2.920	2.600	1.400	1.330	1.607 ²⁾	1.035	572	993
Station wagon	0J3	2.920	2.700	1.400	1.490	1.607 ²⁾	1.035	572	1.093
Station wagon ¹⁾	0J2	2.920	2.520	1.330	1.230	1.607 ²⁾	1.035	572	913
Station wagon	0J2	3.320	2.600	1.480	1.330	1.649 ²⁾	1.050	599	951
Station wagon	0J3	3.320	2.700	1.480	1.490	1.649 ²⁾	1.050	599	1.051
High-space station wagon	0J2	3.320	2.600	1.480	1.330	1.699 ²⁾	1.075	624	901
High-space station wagon	0J3	3.320	2.700	1.480	1.490	1.699 ²⁾	1.075	624	1.001
Flatbed truck	0J2	2.920	2.525	1.250	1.410	1.530	1.030	500	995
Flatbed truck	0J3	2.920	2.785	1.330	1.490	1.530	1.030	500	1.255
Flatbed truck	0J2	3.320	2.575	1.330	1.410	1.580	1.055	525	995
Flatbed truck	0J3	3.320	2.785	1.400	1.490	1.580	1.055	525	1.205
Flatbed truck	0J5/1LE	3.320	2.890	1.510	1.490	1.580	1.055	525	1.310
Deep-loading flatbed truck	0J2	3.320	2.575	1.330	1.410	1.580	1.060	520	995
Deep-loading flatbed truck	0J3	3.320	2.785	1.400	1.490	1.580	1.060	520	1.205
Deep-loading flatbed truck	0J5/1LE	3.320	2.890	1.510	1.490	1.580	1.060	520	1.310
Chassis with driver's cab	0J2	2.920	2.525	1.250	1.410	1.375	1.015	360	1.105
Chassis with driver's cab	0J3	2.920	2.785	1.330	1.490	1.375	1.015	360	1.410
Chassis with driver's cab	0J2	3.320	2.575	1.330	1.410	1.400	1.030	370	1.175
Chassis with driver's cab	0J3	3.320	2.785	1.400	1.490	1.400	1.030	370	1.385
Chassis with driver's cab*	0J4	2.920	3.255	1.480	1.800	1.375	1.015	360	1.880
Chassis with driver's cab*	0J4	3.320	3.255	1.480	1.800	1.400	1.030	370	1.855
Chassis with driver's cab	0J5/1LE	3.320	2.890	1.510	1.490	1.400	1.030	370	1.490
Double cab	0J2	3.320	2.575	1.400	1.490	1.650	1.085	565	925
Double cab	0J3	3.320	2.785	1.400	1.490	1.650	1.085	565	1.135
Double cab	0J5/1LE	3.320	2.890	1.510	1.490	1.650	1.085	565	1.240
Chassis with Double cab	0J2	3.320	2.575	1.400	1.490	1.520	1.085	435	1.055
Chassis with Double cab	0J3	3.320	2.785	1.400	1.490	1.520	1.085	435	1.265
Chassis with Double cab	0J5/1LE	3.320	2.890	1.510	1.490	1.520	1.085	435	1.370

¹⁾ Chassis PR-No.1P4 is set deeper by 20 mm

²⁾ Unladen weight with trim panel in the passenger compartment/boot space. Trim panel controllable with PR-No. 5DA.

New: Latest unladen weight including driver's weight, but without seats in the passenger compartment!

* Only for camper vans and sales vehicles

Important notice: For vehicles with automatic gear, the unladen weight is increased by 30 kg (front axle +30 kg, rear axle 0 kg)

Petrol/diesel, 5 cylinders

Name	PR-No.	Wheelbase	Permitted total weight	Permitted axle load front	Permitted axle load rear	Unladen weight with driver	of it: on front axle	of it: on rear axle	Net load
		mm	kg	kg	kg	kg	kg	kg	kg
Box-type delivery van	0J1	2.920	-	-	-	-	-	-	-
Box-type delivery van	0J2	2.920	2.650	1.400	1.410	1.655	1.105	550	995
Box-type delivery van	0J3	2.920	2.800	1.480	1.490	1.655	1.105	550	1.145
Box-type delivery van ¹⁾	0J2	2.920	2.600	1.400	1.230	1.655	1.105	550	945
Box-type delivery van	0J2	3.320	2.700	1.480	1.410	1.705	1.140	565	995
Box-type delivery van	0J3	3.320	2.800	1.480	1.490	1.705	1.140	565	1.095
Box-type delivery van	0J5/1LE	3.320	2.890	1.510	1.490	1.705	1.140	565	1.185
High-space box-type delivery van	0J2	3.320	2.700	1.480	1.410	1.755	1.165	590	945
High-space box-type delivery van	0J3	3.320	2.800	1.480	1.490	1.755	1.165	590	1.045
High-space box-type delivery van	0J5/1LE	3.320	2.890	1.510	1.490	1.755	1.165	590	1.135
Station wagon	0J1	2.920	-	-	-	-	-	-	-
Station wagon	0J2	2.920	2.700	1.480	1.330	1.682	1.110	572	1.018
Station wagon	0J3	2.920	2.800	1.480	1.490	1.682	1.110	572	1.118
Station wagon ¹⁾	0J2	2.920	2.620	1.400	1.230	1.682	1.110	572	938
Station wagon	0J2	3.320	2.700	1.570	1.330	1.724	1.125	599	976
Station wagon	0J3	3.320	2.800	1.570	1.490	1.724	1.125	599	1.076
Station wagon	0J5/1LE	3.320	2.890	1.570	1.490	1.724	1.125	599	1.166
High-space station wagon	0J2	3.320	2.700	1.570	1.330	1.724	1.150	624	926
High-space station wagon	0J3	3.320	2.800	1.570	1.490	1.724	1.150	624	1.026
High-space station wagon	0J5/1LE	3.320	2.890	1.570	1.490	1.724	1.150	624	1.116
Flatbed truck	0J2	2.920	2.600	1.330	1.410	1.605	1.105	500	995
Flatbed truck	0J3	2.920	2.800	1.400	1.490	1.605	1.105	500	1.195
Flatbed truck	0J2	3.320	2.650	1.400	1.410	1.655	1.130	525	995
Flatbed truck	0J3	3.320	2.800	1.480	1.490	1.655	1.130	525	1.145
Flatbed truck	0J5/1LE	3.320	2.890	1.510	1.490	1.655	1.130	525	1.235/1.214
Deep-loading flatbed truck	0J2	3.320	2.650	1.400	1.410	1.655	1.135	520	995
Deep-loading flatbed truck	0J3	3.320	2.800	1.480	1.490	1.655	1.135	520	1.145
Deep-loading flatbed truck	0J5/1LE	3.320	2.890	1.510	1.490	1.655	1.135	520	1.235/1.214
	0J2	2.920	2.600	1.330	1.410	1.450	1.090	360	1.150

Chassis with driver's cab									
Chassis with driver's cab	0J3	2.920	2.800	1.400	1.490	1.450	1.090	360	1.350
Chassis with driver's cab	0J2	3.320	2.650	1.400	1.410	1.475	1.105	370	1.175
Chassis with driver's cab	0J3	3.320	2.800	1.480	1.490	1.475	1.105	370	1.325
Chassis with driver's cab*	0J4	2.920	3.300	1.570	1.800	1.450	1.090	360	1.850
Chassis with driver's cab*	0J4	3.320	3.300	1.570	1.800	1.475	1.105	370	1.825
Chassis with driver's cab	0J5/1LE	3.320	2.890	1.510	1.490	1.475	1.105	370	1.415
Double cab	0J2	3.320	2.650	1.480	1.490	1.725	1.160	565	925
Double cab	0J3	3.320	2.800	1.480	1.490	1.725	1.160	565	1.075
Double cab	0J5/1LE	3.320	2.890	1.510	1.490	1.725	1.160	565	1.165
Chassis with Double cab	0J2	3.320	2.650	1.480	1.490	1.595	1.160	435	1.055
Chassis with Double cab	0J3	3.320	2.800	1.480	1.490	1.595	1.160	435	1.205
Chassis with Double cab	0J5/1LE	3.320	2.890	1.510	1.490	1.595	1.160	435	1.295

1) Chassis PR-No.1P4 is set deeper by 20 mm

2) Unladen weight with trim panel in the passenger compartment/boot space. Trim panel controllable with PR-No. 5DA.

New: Latest unladen weight including driver's weight, but without seats in the passenger compartment!

Important notice: For vehicles with automatic gear, the unladen weight is increased by 30 kg (front axle +30 kg, rear axle 0 kg)

5 cylinders, TDI/VR 6 petrol engine

Name	PR-No.	Wheelbase	Permitted total weight	Permitted axle load, front	Permitted axle load, rear	Unladen weight with driver	of it: on front axle	of it: on rear axle	Net load
		mm	kg	kg	kg	kg	kg	kg	kg
Box-type delivery van	0J1	2.920	-	-	-	-	-	-	-
Box-type delivery van	0J2	2.920	2.680	1.430	1.410	1.685	1.135	550	995
Box-type delivery van	0J3	2.920	2.800	1.510	1.490	1.685	1.135	550	1.115
Box-type delivery van ¹⁾	0J2	2.920	2.630	1.430	1.230	1.685	1.135	550	945
Box-type delivery van	0J2	3.320	2.730	1.510	1.410	1.735	1.170	565	995
Box-type delivery van	0J3	3.320	2.800	1.510	1.490	1.735	1.170	565	1.065
Box-type delivery van	0J5/1LE	3.320	2.890	1.510	1.490	1.735	1.170	565	1.155
	0J2	3.320	2.730	1.510	1.410	1.785	1.195	590	945

VW Nutzfahrzeuge Aufbauorientierungen



Nutzfahrzeuge

High-space box-type delivery van									
High-space box-type delivery van	0J3	3.320	2.800	1.510	1.490	1.785	1.195	590	1.015
High-space box-type delivery van	0J5/1LE	3.320	2.890	1.510	1.490	1.785	1.195	590	1.105
Station wagon	0J1	2.920	-	-	-	-	-	-	-
Station wagon	0J2	2.920	2.700	1.510	1.330	1.712	1.140	572	988
Station wagon	0J3	2.920	2.800	1.510	1.490	1.712	1.140	572	1.088
Station wagon ¹⁾	0J2	2.920	2.620	1.430	1.230	1.712	1.140	572	908
Station wagon	0J2	3.320	2.700	1.600	1.330	1.754	1.155	599	946
Station wagon	0J3	3.320	2.800	1.600	1.490	1.754	1.155	599	1.046
Station wagon	0J5/1LE	3.320	2.890	1.600	1.490	1.754	1.155	599	1.136
High-space station wagon	0J2	3.320	2.700	1.600	1.330	1.754	1.180	624	896
High-space station wagon	0J3	3.320	2.800	1.600	1.490	1.754	1.180	624	996
High-space station wagon	0J5/1LE	3.320	2.890	1.600	1.490	1.754	1.180	624	1.086
Flatbed truck	0J2	2.920	2.630	1.360	1.410	1.804	1.135	500	995
Flatbed truck	0J3	2.920	2.800	1.430	1.490	1.804	1.135	500	1.165
Flatbed truck	0J2	3.320	2.680	1.430	1.410	1.635	1.160	525	995
Flatbed truck	0J3	3.320	2.800	1.510	1.490	1.635	1.160	525	1.115
Flatbed truck	0J5/1LE	3.320	2.890	1.510	1.490	1.635	1.160	525	1.205
Deep-loading flatbed truck	0J2	3.320	2.680	1.430	1.410	1.685	1.165	520	995
Deep-loading flatbed truck	0J3	3.320	2.800	1.510	1.490	1.685	1.165	520	1.115
Deep-loading flatbed truck	0J5/1LE	3.320	2.890	1.510	1.490	1.685	1.165	520	1.205
Chassis with driver's cab	0J2	2.920	2.630	1.360	1.410	1.685	1.120	360	1.150
Chassis with driver's cab	0J3	2.920	2.800	1.430	1.490	1.685	1.120	360	1.320
Chassis with driver's cab	0J2	3.320	2.680	1.430	1.410	1.505	1.135	370	1.175
Chassis with driver's cab	0J3	3.320	2.800	1.510	1.490	1.505	1.135	370	1.295
Chassis with driver's cab	0J5/1LE	3.320	2.890	1.510	1.490	1.505	1.135	370	1.385
Chassis with driver's cab*	0J4	2.920	3.300	1.600	1.800	1.480	1.120	360	1.820
Chassis with driver's cab*	0J4	3.320	3.300	1.600	1.800	1.505	1.135	370	1.795
Double cab	0J2	3.320	2.680	1.510	1.490	1.755	1.190	565	925
Double cab	0J3	3.320	2.800	1.510	1.490	1.755	1.190	565	1.045
Double cab	0J5/1LE	3.320	2.890	1.510	1.490	1.755	1.190	565	1.135
Chassis with Double cab	0J2	3.320	2.680	1.510	1.490	1.625	1.190	435	1.055
Chassis with Double cab	0J3	3.320	2.800	1.510	1.490	1.625	1.190	435	1.175

VW Nutzfahrzeuge Aufbau Richtlinien



Nutzfahrzeuge

Chassis with Double cab	0J5/1LE	3.320	2.890	1.510	1.490	1.625	1.190	435	1.265
-------------------------	---------	-------	-------	-------	-------	-------	-------	-----	-------

1) Chassis PR-No.1P4 is set deeper by 20 mm

2) Unladen weight with trim panel in the passenger compartment/boot space. Trim panel controllable with PR-No. 5DA.

Neu: Latest unladen weight including driver's weight, but without seats in the passenger compartment!

* Only for camper vans and sales vehicles

Important notice: For vehicles with automatic gear, the unladen weight is increased by 30 kg (front axle +30 kg, rear axle 0 kg)

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 (online body guidelines). Data status August 2007

2.2 Single-Sided Weight Distribution

The weights must **never exceed** the

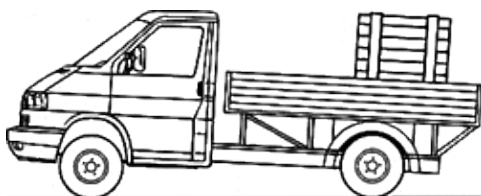
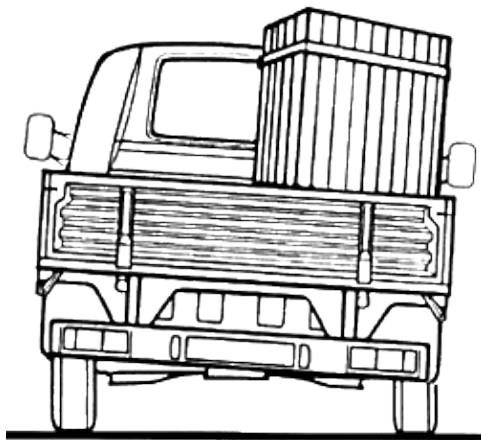
- permissible total weight
- permitted front-axle weight
- permitted rear-axle weight.

When projecting attachments/upgrades, 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 4%.

Example:

Permitted axle load	1.430 kg
Theoretical wheel load left/right	715 kg/715 kg
4% of this wheel load	29 kg
Permitted wheel load distribution left/right	686 kg/744 kg

To ensure a sufficient manoeuvrability and a satisfying driving behaviour of the vehicle in all loading states, the minimum front-axle load must be 965 kg.



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 (online body guidelines). Data status August 2007

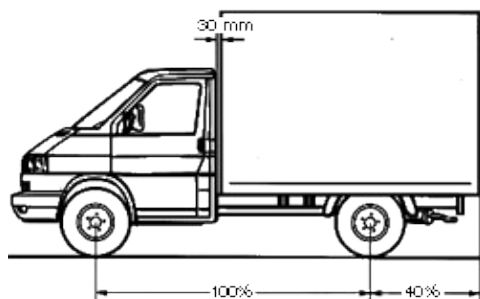
2.3 Maximum Dimensions

The chassis dimensions can be taken from the following drawings (see p. 20-23). Chassis drawings, **on a scale of 1:20 and 1:10**, are available to help you planning the attachment.

If reinforced springs, enhanced springs are installed or if tyre sizes are used that are differing from the standard model, vehicle and frame heights (as measured from ground level) may change considerably. In this case, it is necessary to consider this equipment during projecting.

Important note

- The minimum distance between cab and attachment must be at least 30 mm.
- The rear overhang of the attachments must not exceed 40% of the wheel base.



The **maximum permitted overhang** (rear) of **40%** of the wheel base, results in the following max. external attachment lengths for chassis. These values must not be exceeded:

	Wheelbase	Standard attachment length, interior	max. external attachment length, 40% overhang
Chassis with driver's cab	2.920 mm	2.505 mm	2.686 mm
Chassis with driver's cab	3.320 mm	2.905 mm	3.246 mm
Chassis with double cab	3.320 mm	2.140 mm	2.476 mm

Attachment width:

The exterior width of the driver's cab is 1,840 mm. If the standard exterior mirrors are used, the attachment width must not exceed 2,200 mm.

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 (online body guidelines). Data status August 2007

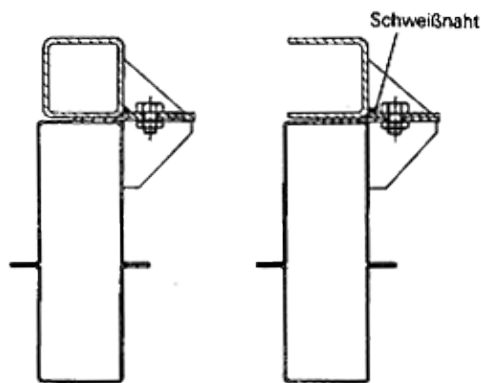
2.4 Serienmäßige Befestigungspunkte für Sonderaufbauten

Der Rahmen ist eine aus Blechpreßteilen bestehende Hohlprofilkonstruktion. Damit allen Gegebenheiten der Befestigung von Sonderaufbauten Rechnung getragen ist, sind konstruktiv folgende Vorkehrungen getroffen worden.

Auf den Längsträgern sind Konsolen angeschweißt, die zur Befestigung der Sonderaufbauten dienen. **Jede Konsole ist mit einer Bohrung von $\varnothing 11$ mm versehen.**

Die Befestigung zwischen Aufbau und Fahrzeugrahmen sollte immer über alle Konsolen erfolgen. Die Schraubverbindung zu den Konsolen muß kraftschlüssig ausgeführt werden.

Der Spalt zwischen den Konsolen über dem Fahrgestellrahmen muß nicht ausgefüllt werden.



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 (online body guidelines). Data status August 2007