Important notes for alignment

The following must be observed during alignment:

- 1. Actual vehicle height
- 2. Height setting / alteration in wheel load

To 1: (Actual vehicle height)

Explanation of vehicle heights:

Specified vehicle height

Corresponds to the specified value. The tolerance range may be used to reduce the difference in wheel load.

Actual vehicle height

- Should be within the tolerance range for the specified vehicle height.
- Is lost if the vehicle or front axle have been raised.
- Is recovered after a longer journey or longer operating period. Exact value can be achieved by pulling the front axle downward in a precisely defined way.
- Description in the following text.

Influenced vehicle height

Existing height value after the vehicle or front axle have been raised. Never use this height value as a starting point, to prevent:

- a) a result of height measurement that does not correspond to the actual vehicle height, or
- b) a toe-in value, when correcting the wheel position, which, because of the FA kinematics, does not comply with regulations at actual vehicle height.

Obtain actual vehicle height as follows:

- After the vehicle has been raised, starting at the influenced vehicle height, pull the front axle down by 60 - 70 mm and hold for 1 minute. Use special tool 10 - 222 A for this. Keep to the specified time.
- After releasing the vehicle, bounce the front and rear axles approx. 25 mm a few times.

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For the pulling down procedure, fasten the engine support (prop device) 10–222 A to the stabilizer. Use suitable hooks or straps. The transport lugs (strap No. 28, Page 40 - 7) may be used if there is enough distance between the rails of the platform. This is possible without removing the sump guard.



An alteration in wheel load always acts on the wheel diagonally opposite. In other words, if the wheel load of one wheel is increased or reduced, the diagonally opposite wheel undergoes the same alteration.

Example

Spring pretension is increased at the rear left C.

This means that the wheel load:

- increases rear left C and front right B
- reduces rear right D and front left A



The difference between left and right wheel load should be kept as low as possible for front and rear axles (less than 20 kg).

To 2: (Height adjustment/alteration in wheel load)

Changing the height on one side causes an alteration in wheel load. If there is an alteration in wheel load for one wheel, the loads for the other wheels also change.

An increase in spring pretension (raising the vehicle) on one side causes an increase in wheel load.

A reduction in spring pretension (lowering the vehicle) on one side reduces the wheel load.