

No.

**‘Amendment to the Directive for the testing  
of headlamp aiming devices’ (BMVI/StV  
22/7341.1/40-00 of 11.8.2020, Traffic  
Bulletin 2021, issue 17, No 136, p. 551)**

Bonn, xx.xx.2024 StV  
22/7341.1/40-00

Following the publication of the Directive for the testing of headlamp aiming devices, the latest technical developments (manual or automatic levelling devices in the longitudinal and transverse directions) make it necessary to adapt the necessary test specifications and the procedure for type approval of the Directive. The Directive for the testing of headlamp aiming devices’ (BMVI/StV 22/7341.1/40-00, 11.8.2020, Traffic Bulletin 2021, issue 17, No 136, p. 551) is hereby amended:

Throughout the text of the Directive, the word ‘paragraph’ is deleted and replaced by the word ‘point’. The following amendments relate accordingly to points.

In point 2, for the definition of ‘type delimiting characteristics’, the list is extended by the indication ‘manufacturer’.

In point 2, the definition of ‘software’ is inserted after the last definition of ‘operating manual’:

**Software** are the parts of the program relevant for safety and measurement, as well as for data transfer.

Point 3, sentence 2 is recast:

‘For each type of headlamp aiming device, the application must include:

- sufficiently detailed drawings allowing identification of the type of headlamp aiming device and showing the identification of the lens
- an overall drawing with the main dimensions of the device that also shows the location of the type label
- photographs showing the entire headlamp aiming device in front, side and rear view
- a brief technical description of the essential components of the headlamp aiming device,

such as: headlamp aiming device chassis, column, optic box, lens, filter, visor, outlining in particular the technical characteristics

- software used (incl. update status), where necessary for the operation of the headlamp aiming device
- samples to be able to present all versions, such as:
  - three-wheel or four-wheel headlamp aiming device chassis
  - different column lengths
  - different additional equipment of the optic box
  - various visor devices
- operating manual'

Point 4 is recast:

#### ‘4. Labelling

The headlamp aiming device shall be marked with the following inscriptions:

4.1. A clearly legible, permanent and easily accessible type plate shall be affixed on each headlamp aiming device:

- manufacturer
- type of headlamp aiming device
- serial number
- identification of lens
- type approval number
- month and year of manufacture

Adhesive signs shall be clearly legible and durable and must be permanently affixed.

The legibility of the information and the strength of the attachment shall not change even if the signs attached in accordance with the instructions are exposed to the action of fuels and oils as well as of liquids present in normal traffic. The adhesive signs must be resistant to normal operational vibrations, abrasion, cold and heat as well as weather conditions.

‘Clearly legible’ means an identification if it can be read under normal lighting conditions without technical aids. Foil plates shall not be reusable after removal.

4.2. If the headlamp aiming device has a levelling device according to point 9.8.2, their execution (manual or automatic) shall be clearly and permanently identified near the reading unit.

The identification shall be carried out as a pictogram (at least Ø 60 mm) with a red background, the words ‘levelling device’ and ‘automatic’ or ‘manual’ shall be circularly grouped in white lettering around a centrally arranged black ‘exclamation mark.’.

Point 5 is recast:

## ‘5. Type approval

The type approval or the re-type approval referred to in point 12.1. shall be issued after successful examination by means of an expert opinion on the type approval and the award of a type approval number or the re-assignment with a supplement of the already existing type approval number by the testing agency.

The type approval number and the supplement to an existing type approval number shall be permanently affixed on the outside of the device as follows:

- four-digit year of type approval
- type approval month
- individually assigned identification number of the technical inspection

body example of a type approval number: 2020-04-01234567XYZ  
2020-04-01234567XYZ\_01  
(supplement 1)'

In point 6 (1), the words ‘Federal Ministry of Transport and Digital Infrastructure’ are replaced by the words ‘Federal Ministry of Digital and Transport’.

In point 6, the last paragraph is recast:

‘The following information may be provided upon request to appropriately accredited calibration providers:

- Applicant:
- Manufacturer
- headlamp aiming device type
- technical testing body
- type approval number
- certificate number with date
- permitted software status, if required for the operation of the headlamp aiming device
- expiry of type approval
- Conditions and indications according to point 7.6'

In point 7.9., the words ‘Federal Ministry of Transport and Digital Infrastructure (BMVI)’ are replaced by the words ‘Federal Ministry of Digital and Transport’.

Before point 7.15., the new point 7.15. is inserted:

‘7.15. Each headlamp aiming device shall be adjustable by appropriate means in the longitudinal and transverse directions in order to consider any longitudinal and transverse inclination of the vehicle installation surface as part of the calibration in the headlamp aiming device.’

The old point 7.15. is recast as point 7.16.:

‘7.16. It must be possible to calibrate each headlamp aiming device using suitable means. The information necessary for calibration and adjustment shall be made available to accredited calibration laboratories in a non-discriminatory manner through the database of the ASA Association. This also includes access to the relevant device functions (including hardware or software interfaces, data logs).’

In point 9.7., the word ‘paragraphs’ is deleted and replaced by the word ‘points’.

Before point 9.8.1., the new point 9.8.1. is inserted:

‘9.8.1. The claim in point 7.15 shall be deemed to have been fulfilled if, during a check, the projector is twisted one by one by  $\pm 1.5$  % around its longitudinal axis and tilted by up to  $\pm 1.5$  % in the transverse direction and this can be compensated as part of the adjustment. After the headlamp aiming device has been adjusted accordingly, the tests referred to in points 9.4, 9.7 and 9.8 must be repeated.’

The old point 9.8.1 is renamed as point 9.8.2 and the sentence ‘In addition, this check must be carried out in the adjusted state according to point 9.8.1.’ is added.

In point 10. paragraph 2, the first sentence is recast:

‘The lead technical testing body or the KBA may review the procedures used to check the conformity of production at any time at the expense of the headlamp aiming device manufacturer.’

The correction is to be applied no later than three months after publication.

On behalf of the Federal Ministry of Digital  
and Transport  
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