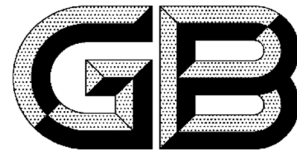


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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 17510-2025

Replacing GB 17510-2008

Light-signaling devices for motorcycles and mopeds

摩托车和轻便摩托车光信号装置

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Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document replaces GB 17510-2008 "Photometric characteristics of light-signaling devices for motorcycles". Compared with GB 17510-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Changed the criteria for determining different types (see Chapter 4 of this Edition; Chapter 5 of Edition 2008);
- b) Added requirements for light-signaling devices with illuminated emblems (see 5.1.2 of this Edition);
- c) Added design requirements for rear position lamps integrated with brake lamps (see 5.2.1 of this Edition);
- d) Added requirements for infrared radiation generators (see 5.2.2 of this Edition);
- e) Changed the description of turn signal lamp classification and the spacing requirements from adjacent low-beam lamps or front fog lamps (see 5.3.1 of this Edition; 4.1.3 of Edition 2008);
- f) Added requirements for sequential turn signal lamps (see 5.3.2 of this Edition);
- g) Changed light source requirements (see 5.5 of this Edition; 6.1.3 of Edition 2008);
- h) Added requirements for type "D" lamps (see 6.1.2 of this Edition);
- i) Changed the maximum light intensity limits on the reference axis for front position lamps, rear position lamps, brake lamps, and turn signal lamps (see 6.1.2 of this Edition; 6.2.2 of Edition 2008);
- j) Added requirements and test methods for reversing lamps (see 6.1.2 and 7.2.5.1 of this Edition);
- k) Added provisions for the interoperable lamp system (see 6.3 of this Edition);
- l) Changed the test requirements for light color (see 7.2.6 of this Edition; 8.11 and 8.12 of Edition 2008);
- m) Changed the requirements for materials and samples to be provided by the manufacturer (see 8.1.1 of this Edition; 9.3.1 of Edition 2008);
- n) Added the sampling quantity requirement for production consistency inspection (see 8.2.1 of this Edition);

- o) Changed the light distribution angle range of the device (see Annex A of this Edition; 4.1 of Edition 2008).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority shall not be held responsible for identifying any or all such patent rights.

This document was proposed by and shall be under the jurisdiction of Ministry of Industry and Information Technology of the People's Republic of China.

This document was first published in 1998. It was first revised in 2008. This is the second revision.

Light-signaling devices for motorcycles and mopeds

1 Scope

This document specifies the same type determination, general requirements, lighting requirements, test and inspection rules for light-signaling devices for motorcycles and mopeds.

This document applies to the design, manufacture and acceptance of front position lamps, rear position lamps, brake lamps, turn signal lamps, reversing lamps and rear license plate lighting devices for L₁ to L₅ vehicles.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB 4785, *Prescription for installation of the external lighting and light-signaling devices for motor vehicles and their trailers*

GB 18100, *Provisions for the installation of lighting and light-signaling devices for motorcycles and mopeds*

UN R37, *Uniform provisions concerning the approval of filament lamps for use in approved lamp units of power-driven vehicles and of their trailers*

UN R128, *Uniform provisions concerning the approval of light emitting diode (LED) light sources for use in approved lamp units on power-driven vehicles and their trailers*

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB 4785 and GB 18100 as well as the followings apply.

3.1 light-signaling device

A unit or group of units used to emit light signals to other road users to indicate the presence of a vehicle or a change in its motion state, and to perform one or more functions.