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

GB/T 24931-2025

Replacing GB/T 24931-2010

**Prescription for installation of the external lighting and
light-signalling devices for the all-terrain vehicles**

全地形车照明和光信号装置的安装规定

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

This document replaces GB/T 24931-2010 "Installation requirements for lighting and light signal devices for all-terrain vehicles" and is compatible with GB/T 24931- Compared with 2010, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Added the term and definition of "step light" (see 3.2);
- b) Add the vertical inclination requirements and measurement methods for the dipped beam headlights (see 5.2.5.2);
- c) The installation conditions of some lamps have been changed (see Table 1, Table 1 of the 2010 edition);
- d) The number of lamps installed, the number of brake lights, the number of side reflectors, etc. have been changed (see Chapter 5);
- e) Added the installation requirements for daytime running lights (see 5.14);
- f) The illustrations of the definition of the luminaire surface, reference axis, reference center and collective visibility angle have been deleted (see Appendix A of the 2010 edition);
- g) The horizontal angle of geometric visibility of turn signal lamps has been deleted (see Appendix C of the 2010 edition);
- h) Added the environmental requirements for automatic switching of low beam headlights (see Appendix B);

- i) Added the requirements for the configuration and light color of all-terrain vehicle lamps (see Appendix C);
- j) Added the calculation method of the vertical inclination of the near-brightness cut-off line and the inclination of the center of the ADB maximum illumination area (see Appendix D);
- k) The apparent surface observation area of the step lights has been increased (see Appendix E).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed and coordinated by the National Technical Committee for Standardization of Four-wheeled All-terrain Vehicles (SAC/TC 344).

This document was drafted by: Shanghai Motor Vehicle Inspection and Certification Technology Research Center Co., Ltd., China Quality Certification Center Co., Ltd., Zhejiang Qianjiang Motorcycle Co., Ltd., Zhejiang Chunfeng Power Co., Ltd., Jiangsu Linhai Power Machinery Group Co., Ltd., Tianjin Motorcycle Quality Supervision and Inspection Institute, Hubei Boli Special Automobile Equipment Co., Ltd., Zhejiang Jinye Auto Parts Co., Ltd., Hubei Jiangnan Special Automobile Co., Ltd., Shenzhen Cross-Strait Semiconductor Technology Co., Ltd., Guangzhou Hanma Electronic Technology Co., Ltd., Zhejiang Taotao Automobile Co., Ltd. company.

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This document was first published in 2010 and this is the first revision.

Installation regulations for lighting and light signaling devices for all-terrain vehicles

1 Scope

This document specifies the general requirements, special provisions, inspection rules, and the same type of external lighting and light signaling devices for all-terrain vehicles. Judgment, etc.

This document applies to the installation and inspection of external lighting and light signaling devices on all-terrain vehicles.

2 Normative references

GB 4785

GB 15365

GB/T 24926

GB/T 24936

3 Terms and definitions

The terms and definitions defined in GB 4785, GB/T 24936 and the following apply to this document.

3.1 Overall width

The distance between two planes parallel to the longitudinal plane of the vehicle and in contact with the vehicle.

Note. Except for the rearview mirrors, all fixed parts and lateral projections of the vehicle are between these two planes.

3.2 Exterior courtesy lamp

A lamp that provides auxiliary lighting for vehicle drivers and passengers when getting on or off the vehicle or loading and unloading cargo.

4 General requirements

4.1 The installation of lighting and light-signaling devices shall, under normal use, comply with the requirements of this document for each device and even if they are subject to vibration. Vehicle requirements.

4.2 The installation of lighting devices should facilitate the correct adjustment of their aiming.

4.3 The reference axis of all lighting and light signal devices installed on the vehicle should be parallel to the parking surface of the vehicle on the road.

The reference axis of all lighting and light signal devices, except for reflectors, shall be parallel to the longitudinal symmetry plane of the vehicle; the reference axis of the side retro-reflectors shall be parallel to the longitudinal symmetry plane of the vehicle.

It should be perpendicular to the longitudinal symmetry plane of the vehicle. The tolerance in each direction is $\pm 3^\circ$.

4.4 When checking the installation height and direction of the lamps, the vehicle to be tested should be unloaded and placed on a level surface, with its longitudinal symmetry plane vertical and the steering Put the front wheels in the forward-facing straight-ahead position. The tire inflation pressure shall be in accordance with the vehicle manufacturer's regulations.

4.5 The installation of single or multiple lamps on a vehicle shall meet the following requirements.

a) For a single mounted lamp, its reference centre shall be located on the longitudinal symmetry plane of the vehicle, except in the following cases.

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