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

GB/T 9465.1-1988

Replacing GB/T 9465-2008

**Vehicle-mounted mobile elevating work platform
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 9465-2008 "High-altitude work vehicle". Compared with GB/T 9465-2008, except for editorial changes, mainly the technical changes are as follows.

--- Removed the "Basic Parameter Series for Work Vehicles" requirement (see 2008 edition 4.3);

--- Modified Chapter 3 aerial work vehicle, maximum working platform height, minimum working platform height, maximum working height, maximum operation Amplitude, rated load definition, deleted the definition of aerial work platform (see 2008 edition 3.2), increased mobile lift work level Taiwan (see 3.2), minimum operating height (see 3.7) definition;

--- Working environment conditions increase the relative humidity regulations of insulated working vehicles (see 5.1.9);

--- Increased the requirements for the safety performance of modified vehicles (see 5.1.3, 5.1.5);

--- Increased the limit of the "outer edge speed" of the swing speed (see 5.8.3);

--- Revised the calculation requirements for stability and structural safety (see 5.3.3, 5.3.5);

--- Increased the safety provisions of the work platform (see 5.7.6, 5.7.12, 5.7.15), aerial work vehicles greater than 30m should be equipped with anemometer (see 5.7.14), interlocking of the leg and extension structure (see 5.7.2), safety requirements for the safety of the rated load of the work vehicle (see 5.7.16~5.7.18);

--- Increased the safety performance requirements of hydraulic system actuators (see 5.4), improved the platform sinking capacity under rated load (see 5.8.5, 2008 edition 5.7.5);

--- Increased control requirements for electrical systems (see 5.5);

--- Revise the maximum working platform height error to 1% (see 5.8.6, 2008 version 5.7.6);

--- Increased 20kV, 500kV grade insulated aerial work vehicle content (see Table 3, 2008 edition table 4);

---The detection electrode is changed from "63kV or more folding arm type working vehicle" to "66kV and above working vehicle", the fixed position is "100mm~150mm" was changed to "not less than 50mm" (see 5.10.1.1, 2008 edition 5.9.1);

--- Added the requirement of "equal potential connection ring for voltage equipotential working vehicle of 110kV and above" (see 5.10.1.2);

--- Removed the insulation working platform attribute "used as primary insulation and auxiliary insulation", removed the external insulation work platform wall thickness insulation power frequency Withstand voltage test requirements, the applied voltage of preventive test and handover acceptance test is changed from "20kV" to "45kV", handover acceptance the duration of the test was changed from "5min ± 5s" to "1min ± 5s" (see 5.10.2.2, 2008 edition 5.9.2.2);

---Insulated parts type test changed from "insulation arm" to "insulation arm and accessories" (see 5.10.3, 2008 version 5.9.3);

--- The test item of the basic arm insulation arm section (auxiliary insulation) is adjusted to be part of the insulation performance test of the whole vehicle.

Edge performance test (see 6.13.1);

--- Increased the withstand voltage and leakage current test items of the components after installation of the main insulation arm (see 6.13.1.1.2, 6.13.1.2);

--- Added a test example of the withstand voltage and leakage current of the telescopic arm type insulated car (see 6.13.1, 6.13.5);

--- Added auxiliary insulation boom test requirements (see 6.13.4);

--- Increased grounding device requirements for insulated aerial work vehicles (see 5.10.3.6);

--- Revised the number of cycles for the reliability test (see 5.12, 2008 version 5.11).

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Lifting Work Platform Standardization Technical Committee (SAC/TC335).

This standard was drafted. Xuzhou Hailunzhe Special Vehicle Co., Ltd., Hangzhou Aizhi Engineering Vehicle Co., Ltd., Beijing Construction Machinery Institute of Chemical Research, Henan Minfa Special Vehicle Group Co., Ltd., Guangdong Special Equipment Inspection and Research Institute, Zhejiang Dingli Machinery Co., Ltd.

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1 Scope

This standard specifies the terms and definitions, classification and model, technical requirements, test methods, inspection rules, signs, packaging, and Transportation and storage.

This standard is applicable to aerial work vehicles with a maximum working height of not more than 100m (hereinafter referred to as work vehicles).

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 507 insulation oil breakdown voltage measurement method GB 1589 Car, trailer and car train profile size, axle load and mass limit General rules and safety requirements for GB/T 3766 hydraulic drive systems and their components GB 3847 Automotive Compression Ignition Engine and Compression Ignition Engine Exhaust Smoke Emission Limits and Measurement Methods GB/T 4208-2017 enclosure protection grade (IP code) GB 5226.1-2008 Mechanical electrical safety machinery and electrical equipment - Part 1. General technical conditions GB 7258 Motorcycle Operation Safety Technical Conditions General technical requirements for GB/T 7935 hydraulic components GB/T 9969 General guidelines for the use of industrial products GB 11567 Protection requirements for side and rear parts of automobiles and trailers GB/T 12534 General rules for road test methods GB/T 14039-2002 Hydraulic transmission oil solid particle pollution level code GB/T 14048.5 Low-voltage switchgear and controlgear - Part 5-1. Electromechanical control of control circuit electrical and switching components Circuit electrical appliance GB/T 16927.1 High Voltage Test Technique Part 1. General Definitions and Test Requirements GB 17691 Combustion-type, gas-fueled ignition engine and vehicle exhaust pollutant emission limits and measurement methods (China III, IV, V stage) GB 18352.5 Light vehicle pollutant emission limits and measurement methods (China Stage 5) GB/T 20082 Hydraulic fluid transmission liquid contamination method for determining particle contamination by optical microscopy GB/T 25849-2010 Mobile lifting work platform design calculation, safety requirements and test methods GB/T 26473 crane truck crane safety requirements GB/T 33081 mobile lifting platform operator control symbols and other markings General

technical conditions for JB/T 5937 construction machinery gray cast iron parts General
technical conditions for JB/T 5939 engineering machinery steel castings General technical
conditions for JB/T 5943 construction machinery welding parts JB/T 5946 General technical
conditions for engineering machinery painting JB/T 12577 truck mounted crane QC/T 252
special vehicle type test procedure