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

GB/T 46733-2025

**Installation specification for independent air conditioners for
vehicles**

车载独立空调器安装规范

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Requirements for Air Conditioners and Installation Accessories	2
5.Air Conditioner Installation Requirements	2
6.Air Conditioner Installation Operation	4
7.Air Conditioner Inspection and Acceptance References	10

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China National Light Industry Council. This document was prepared by the National Technical Committee on Standardization of Household Appliances (SAC/TC46) and the National Technical Committee on Standardization of Automobiles (SAC/TC46). 114) Joint jurisdiction. This document was drafted by: Qingdao Haier Air Conditioner Co., Ltd., China Household Electric Appliance Research Institute, and Shandong Shangchi New Energy Technology Co., Ltd. Company, China Automotive Technology and Research Center Co., Ltd., Indel Industrial (Guangdong) Co., Ltd., China Quality Certification Center Co., Ltd. FAW Jiefang Automobile Co., Ltd., Dongfeng Commercial Vehicle Co., Ltd., Weikai Testing Technology Co., Ltd., Xuzhou XCMG Automobile Manufacturing Co., Ltd. Henan Yierfu New Energy Technology Co., Ltd., SAIC Maxus RV Technology Co., Ltd., Air Conditioning International (Shanghai) Co., Ltd., Jiangsu Yunrui Auto Car Electrical Systems Co., Ltd., and Jiangsu Yunyi Electric Co., Ltd. The main drafters of this document are. Tang Xianyi, Yan Ling, Tang Xuejin, Li Yugang, Xu Peng, Gao Yuxin, Zhao Ning, Shi Jiejun, Hou Mingwei, and Liu Xiaodan. Meng Guoping, Dai Xingxue, Sun Hongjie, Yang Ge, Dong Qianghua, Wu Duo, Ge Chunhua, Meng Xizhu. Vehicle Independent Air Conditioner Installation Specifications

1 Scope

GB/T 46733-2025 is the Chinese national standard covering fitting a parking cooler to a truck or a camper - the mounting and its effect on the vehicle structure, the electrical

connection and the battery protection, the refrigerant lines and the drainage, and the checks after installation. First edition, in force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document specifies the installation accessories and installation procedures for vehicle-mounted independent air conditioners (hereinafter referred to as "air conditioners") when installed in spaces where air conditioning is required. Requirements, installation procedures, inspections during installation, and delivery, etc. This document applies to the following situations and should be used as a reference for the installation of air conditioners in recreational vehicles.

---Installation of air conditioners in commercial vehicles before they leave the factory;

---After commercial vehicles leave the factory, the air conditioner shall be installed in accordance with this document and the vehicle manufacturer's design specifications and requirements.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB 1589 Limits for the overall dimensions, axle load and mass of automobiles, trailers and automobile combinations

GB/T 4706.32 Safety of household and similar electrical appliances - Part

32.Particular requirements for heat pumps, air conditioners and dehumidifiers

GB 6095 Fall Protection Safety Belt

GB/T 17790 Installation Specifications for Household and Similar Air Conditioners

GB/T 20025.2-2005 Rubber and plastic hoses and hose assemblies for automotive air conditioning systems - Refrigerant 134a resistant GB.20182 External protrusions of commercial vehicle cabs

GB/T 22766.3 After-sales service for household and similar electrical appliances - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 17790, GB/T 22766.3 and GB/T 35753, as well as the following terms and definitions, apply to this document.

3.1 It consists of a compressor, condenser, evaporator, throttling element, fan, and

necessary auxiliary equipment and control components, and has a separate housing and independent... Installed in vehicles, it utilizes the vehicle's own power supply and can provide treated air to the vehicle's interior when the main power system is not operating. equipment.

3.2 To ensure the air conditioner achieves its intended functions and complete functionality, professional installers must follow the design specifications of both the air conditioner and vehicle manufacturers. According to the requirements, the vehicle-mounted independent air conditioner is fixed, combined, connected and debugged.

3.3 Installation surface The surface that supports or fixes the air conditioner. Example. The side and top of a vehicle.