

# Comprehensive Support of General Wheeled Vehicle Equipment

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**Abstract:** Based on the analysis of the characteristics and laws of the general wheeled vehicle equipment support, this paper studies the main challenges faced by the comprehensive support of the general wheeled vehicle equipment, and gives countermeasures and suggestions for further strengthening the comprehensive support of the general wheeled vehicle equipment in view of the contradictions in the support tasks, system establishment, equipment update and other aspects.

## 1. Introduction

General wheeled vehicle equipment support is an important basis for the army to carry out all kinds of military operations and an important guarantee to maintain and improve the combat effectiveness of the army.

## 2. Basic Characteristics of Vehicle Support

### 2.1 Guarantee Effect Linkage

Vehicle equipment support not only directly affects the vehicle equipment itself, but also affects the overall construction of the whole weapon equipment system and even the army. It requires vehicle equipment support to be timely, stable, reliable, fast and efficient.

### 2.2 Guarantee Regional Universality

Whether it is combat force or non-combat force, whether it is inland force, coastal defense force or island force, whether it is in plateau, high cold area or high temperature and high humidity area, it is necessary to establish vehicle equipment support force according to the support task, and carry out support work according to the characteristics of different regional environment and different types of forces.

### 2.3 Heavy Support Tasks

In peacetime, the vehicle equipment is responsible for the task of combat readiness, training, exercise and maneuver, and the support task is very heavy; in wartime, the battlefield situation changes rapidly, the force moves frequently, the material consumption is huge, the vehicle equipment is widely used, and the war damage consumption is large, which makes the number of vehicle equipment rescue and repair, equipment supplement multiply, and the vehicle equipment support task is more heavy.

### 2.4 Diversity of Guarantee Modes

Vehicle equipment can be divided into combat support and life support from the nature of allocation purpose. It is required that vehicle equipment support must be based on the army, adopt multiple support modes including self-support, social support and support from the contractor, make overall use of military and local support resources, and improve the comprehensive support ability of vehicle equipment.

### **3. Main Challenges of Vehicle Support**

(1) the establishment system is not smooth. After the establishment of the general assembly, the functions of vehicle equipment support are assigned to the general assembly by the general manager, but the functions of military vehicle supervision, daily maintenance and driver training remain in the general manager, and within the general assembly system, the scientific research ordering, distribution and maintenance support of vehicle equipment are also under the responsibility of different departments, resulting in multiple management and split management of vehicle equipment, affecting and restricting the overall development of vehicle equipment support Exhibition.

(2) the degree of standardization is not high enough. Due to the long issuing time, the existing business standards have not met the needs of vehicle equipment development and support tasks, and need to be revised; some business standards are still under study and preparation, and they are not issued and implemented, which makes the degree of business standardization is not high enough.

(3) the guarantee means are relatively backward. Field rescue and repair means are insufficient, high mobility rescue and repair equipment is lack; portable and intelligent detection equipment is lack; equipment support means are incomplete, which is far from the requirements of cardinal storage, containerized transportation, field support and information management.

(4) personnel quality is not strong enough. The ability to ensure the strategic thinking, macro planning, organizational coordination, reform and innovation of cadres is not strong enough.

### **4. Some Thoughts on Strengthening the Comprehensive Support of Vehicle Equipment**

#### **4.1 Strengthen Business Information Communication and Lay a Solid Foundation for Comprehensive Support**

(1) further improve the information exchange between vehicle equipment support system, design, development and use management system. The departments and personnel in charge of vehicle equipment support, especially the front-line force support personnel, shall sort out the failure modes and phenomena of vehicle equipment in time, feedback level by level, provide first-hand information for vehicle equipment design, development and finalization, and improve the reliability, maintainability and supportability of vehicle equipment from the source.

(2) further improve the information exchange within the vehicle equipment support system. Vehicle equipment support mainly includes planning, rules and regulations, combat readiness construction, organization construction, vehicle allocation, vehicle maintenance, supply management, professional training, scientific research and other responsibilities. Only when all responsibilities and tasks achieve efficient information exchange and communication, can we finally achieve strong guarantee.

(3) further improve the information exchange between all management levels of vehicle equipment support. At present, the three-level management system of vehicle equipment support is implemented, including headquarters, military regions (arms) and troops.

#### **4.2 Strengthen Personnel Ability Training and Improve Guarantee Business Quality**

(1) make the concept of comprehensive security deeply rooted in the people's mind with strong publicity and education. We need to continue to increase the propaganda and training of the concept of comprehensive equipment support, so that every support personnel will closely combine this concept with the actual work they are responsible for, put their own work into consideration in the whole support system, constantly improve the methods and forms of work, form a strong joint force of comprehensive support, and improve the efficiency and efficiency of support.

(2) improve the quality of security personnel through professional training. It is to organize theoretical research of support law, prepare plan and strengthen targeted training of prewar preparation and wartime support according to different operation modes and support environments; for non-war operation support tasks, it is necessary to strengthen the in-depth understanding of

various tasks and requirements of various plans and practical operation training, so that support personnel have higher emergency support ability.

(3) push forward the cause with a pragmatic style. Vehicle equipment support should be carried out in a practical way with consideration of all parties. We should have a clear understanding of the situation of vehicle support in the armed forces, take the methods of on-the-spot investigation, telephone exchange, consultation with leaders and old comrades, and understand the opinions, suggestions, business construction results and existing problems of the officers and soldiers in the armed forces on the support work. According to the actual situation of the army, in accordance with the rules and regulations, combined with the possibility of financial resources, we should distinguish priorities and work out solutions to problems.

#### **4.3 Optimize the Construction of Guarantee Means and Implement Efficient Supply Guarantee**

(1) scientific management of maintenance equipment. In order to establish a reasonable inventory and carry out high-quality management, the quantity of storage should be moderate, neither too much redundancy nor too short of supply. Supply is the last link for equipment to arrive at the army, which must be timely, accurate and safe, which involves coordination of the supplier, demander and transportation.

(2) vigorously strengthen the informatization construction of security means. We should not only attach importance to the construction of "hardware" such as computer and network, but also to the construction of "software" such as management system and analysis system. Within the framework of relevant technical system requirements and in close combination with business practice, great efforts should be made to carry out demand analysis and top-level design, so as to eliminate contradictions as early as possible. On the basis of meeting the existing needs, the hardware and software construction should be advanced to a certain extent to reserve space for subsequent development. All kinds of management systems should pay attention to the function of registration and statistics, and further develop the function of calculation and analysis and auxiliary decision-making, so as to meet the increasingly high security requirements in this information age and improve the automation and intelligence level of security.

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