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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GA/T 649-2020

Replacing NY 346-2007; NY 1371-2007

Technical specifications for the two-dimensional bar codes in technical parameters for vehicle registration

机动车注册登记技术参数二维条码技术规范

(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 GA 649-2006 "Technical Specification of Two-dimensional Bar Code for Motor Vehicle Registration Technical Parameters", and is consistent with GA 649-2006 Compared with the editorial changes, the main technical changes are as follows.

---Modified the scope (see Chapter 1, Chapter 1 of the 2006 edition);

---Modified the normative reference documents, added references to GB/T 21085, GM/T 0003, GA/T 543, and deleted the reference to GB/T 21085, GM/T 0003, and GA/T 543.

Reference to GA/T 24 (see Chapter 2, Chapter 2 of the 2006 edition);

---Modified the spacer (see 4.2.2, 4.2 in the 2006 edition);

---Modified the encrypted information of technical parameters (see 4.2.3, 4.3 of the 2006 edition);

---Modified the symbol specification and error correction level of the barcode (see 5.2, the 2006 edition of 5.2);

---Added the transition period requirements for standard implementation (see Chapter 8);

---Modified the project content and format specifications of the two-dimensional bar code (see Appendix A, Appendix A of the 2006 edition).

This standard was proposed by the Traffic Management Bureau of the Ministry of Public

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Security.

This standard is under the jurisdiction of the Computer and Information Processing Standardization Technical Committee of the Ministry of Public Security.

This standard was drafted. Traffic Management Research Institute of the Ministry of Public Security.

1 Scope

This standard specifies the structure, content, and bar code of the two-dimensional barcode used in the technical parameter information of the motor vehicle registration on the motor vehicle factory certificate.

Code symbols and technical requirements.

This standard applies to the production of motor vehicle factory certificates and motor vehicle registration.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 12905 Barcode Terminology GB/T 18284-2000 quick response matrix code GB/T 21085 Motor Vehicle Factory Certificate GA/T 543.1 Public Security Data Element(1) GA/T 543.5 Public Security Data Element(5) GA/T 543.10 Public Security Data Element(10) GM/T 0003 SM2 Elliptic Curve Public Key Cryptography Algorithm

3 Terms and definitions

The terms and definitions defined in GB/T 12905 apply to this document.

4.1 Barcode information composition

The information of the technical parameter barcode of motor vehicle registration is composed of identification marks, spacers, and encrypted information of technical parameters. For the structure of the barcode, see

Table 1.

Table 1 Barcode structure of technical parameters for motor vehicle registration

Identification mark spacer technical parameters encrypted information ZCCCHGZ_version number | X1X2Xn

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4.2.1 Identification mark

19 characters. ZCCCHGZ_ The 11-character version number is used as the starting mark of the two-dimensional barcode.

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