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Numbering Rules for Automotive Standardized Parts

汽车标准件产品编号规则

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Numbering Rules for Automotive Standardized Parts

1 Scope

This Document specifies the numbering rules for automotive standardized parts.

This Document applies to the numbering of automotive standardized parts used in the development, design, production, procurement, and distribution of automobile, motorcycle, and their component manufacturers.

2 Normative References

The provisions in following documents become the essential provisions of this Document through reference in this Document. For the dated documents, only the versions with the dates indicated are applicable to this Document; for the undated documents, only the latest version (including all the amendments) is applicable to this Document.

GB/T 97.1 Plain washers - Product grade A

GB/T 97.4 Plain washers for screw and washer assemblies

GB/T 699 Quality carbon structural steels

GB/T 848 Plain washers – Small series – Product grade A

GB/T 3098.1 Mechanical properties of fasteners - Bolts, screws and studs

GB/T 3098.2 Mechanical properties of fasteners - Nuts

GB/T 3098.3 Mechanical properties of fasteners - Set screws

GB/T 3098.6 Mechanical properties of fasteners - Stainless steel bolts, screws and studs

GB/T 3098.9 Mechanical properties of fasteners - Prevailing torque type steel nuts

GB/T 3098.15 Mechanical properties of fasteners - Stainless steel nuts

GB/T 3098.19 Mechanical properties of fasteners - Blind rivets with break pull mandrel

GB/T 3195 Aluminum and aluminum alloys drawn round wires

GB/T 5231 Designation and chemical composition of wrought copper and copper alloys

GB/T 6478 Steels for cold heading and cold extruding

GB/T 8815 Plasticized polyvinyl chloride (PVC) compounds for wire and cable

HG/T 2196 Standard classification system for rubber products in automotive application

QC/T 625 Metallic coatings and conversion coatings for automobile

3 Terms and Definitions

For the purposes of this Document, there are no terms and definitions apply.

4 Numbering Compositions

The product numbering for automotive standardized parts consists of seven parts, as shown in Figure 1:

--- Part 1: Characteristic code of the automotive standardized part;

--- Part 2: Product code;

--- Part 3: Modification code;

--- Part 4: Dimensional specification code;

--- Part 5: Mechanical property or material code;

--- Part 6: Surface treatment code;

--- Part 7: Type code.

5 Numbering Representation and Meaning

5.1 General

The product numbering of automotive standardized parts consists of a continuous, variable-length sequence of Arabic numerals and uppercase Roman letters. The Roman letters "I," "O," and "Z" shall not be used. Some component codes may be omitted, provided the numbering uniquely identifies the product type, specification, technical specifications, and model.

5.2 Characteristic codes of automotive standard parts

These are represented by the first capital letter "Q" of the Chinese pinyin for "automotive."

5.3 Product type codes

Product type codes consist of three digits or a combination of digits and letters.

The first digit of the code represents the product type of automotive standardized parts, represented by a number. The second digit represents the product group number within that product type, represented by a number or letter. Letters may be used only when the number of product groups within that type exceeds ten, and use them sequentially starting with "A" (the letter "Q" shall not be used). The last digit represents the product group number within that product group, represented by a number or letter. Letters may be used only when the number of product groups within that type exceeds ten, and use them sequentially starting with "A" (the letter "Q" shall not be used). Products with similar structures or functions shall be grouped together whenever possible. Coarse and fine thread series of the same product, where the thread is the primary functional characteristic, are considered different product types. Generally, coarse thread product numbers are assigned even numbers, while fine thread product numbers are assigned odd numbers.

Product type code numbers for obsolete products shall not be assigned to other products within 10 years.

The type codes and group codes for automotive standardized parts currently used in the automotive industry follow the requirements of Table 1.

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