

ICS 43.040

QC

**AUTOMOTIVE INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

QC/T 600-2023

**Hexagon bolt with conical washer assembly
(English Translation)**

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Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020

"Directives for standardization - Part 1.Rules for the structure and drafting of standardizing documents".

This document replaces QC/T 600-1999 "Hexagon head bolt and serrated lock washer external teeth assemblies". Compared with QC/T 600-1999, the main technical changes are as follows.

- DELETE the unrecommended nominal lengths of 22, 28, 32, 38 (see Table 1);
- ADD the technical requirements for permanent deformation and continuous load of conical spring washers (see Table 3)
- CHANGE the technical requirements for elastic test of conical spring washers (see Table 3)
- DELETE Appendix A.

Please note that some contents of this document may involve patents. The issuing agency of this document does not assume the responsibility for identifying patents.

This document was proposed by AND shall be under the jurisdiction of the National Technical Committee for Automobile Standardization (SAC/TC 114).

Drafting organization of this document. Ningbo Geely Automobile Research and Development Co., Ltd.

1 Scope

This document specifies the types and dimensions, technical conditions and numbers of the hexagon head bolt and serrated lock washer external teeth assemblies.

This document is applicable to the hexagon head bolt and serrated lock washer external teeth assemblies, which have thread specifications of M5 ~ M12 and bolt mechanical property grade of 8.8.

2 Normative references

The contents of the following documents constitute the essential terms of this document through normative references in the text. Among them, for the referenced documents with dates, only the versions corresponding to the dates are applicable to this document; for the referenced documents without dates, the latest versions (including all amendments) are applicable to this document.

GB/T 2 Fasteners - Ends of parts with external thread

GB/T 90.1 Fasteners - Acceptance inspection

GB/T 90.2 Fasteners - Marking and packaging

GB/T 94.4 Specifications for spring washers - Conical spring washers

GB/T 196 General purpose metric screw threads - Basic dimensions

GB/T 197 General purpose metric screw threads - Tolerances

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

GB/T 3103.1 Tolerances for fasteners - Bolts, screws, studs and nuts

GB/T 5779.1 Fasteners - Surface discontinuities - Bolts, screws and studs for general requirements

QC/T 326 Coding rules for automotive standardized parts

QC/T 625 Metallic coatings and conversion coatings for automobile

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