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AUTOMOBILE INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 43.040

CCS T 33

QC/T 29087-2023

Replacing QC/T 29087-1992

**Permissible welding variation in dimensions without
tolerance indication**

汽车焊接加工零件未注公差尺寸的极限偏差

Issued on: April 21, 2023

Implemented on: November 01, 2023

Issued by: Ministry of Industry and Information Technology of the PRC

Table of Contents

Foreword	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Limit deviation of dimension without tolerance indication in automobile sheet metal welding processing	8
5 Limit deviation of the dimensions without tolerance indication after welding of nuts and studs	9
6 Limit deviation of gas shielded welding dimensions without tolerance indications	10
7 Limit deviation of profile welding structure without tolerance indications.....	11
8 Drawing representation of unindicated limit deviation	11

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 29087-1992. Compared with QC/T 29087-1992, in addition to editorial changes, the main technical changes are as follows:

- ADD relevant terms and definitions (see Chapter 3):
- ADD the classification of common lap joints for automotive sheet metal parts, flat lap joints, lap joints with flanges (see Chapter 4):
- ADD the limit deviation requirements of welding dimensions without tolerance indications corresponding to different lap joints of automotive sheet metal parts (see Chapter 4);
- ADD the limit deviation requirements for welding dimensions without tolerance indications for nuts and studs (see Chapter 5):
- ADD the limit deviation requirements for dimensions without tolerance indications for profile welding structures (see Chapter 7);
- DELETE the limit deviation of angles without tolerance indications (see 2.2 of the 1992 edition).

Please note that some of the 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).

The drafting organization of this document: Beijing Automotive Co., Ltd.

The main drafters of this document: Pan Qiang, Wang Qian.

This standard replaces the standard previously issued as follows:

- It was first published in 1992 as QC/T 29087-1992;
- This is the first revision.

Permissible welding variation in dimensions without tolerance indication

1 Scope

This document specifies the limit deviations of dimension without tolerance indications in automotive parts affected by welding processes.

This document applies to the limit deviations of dimensions and angles without tolerance indications of automotive sheet metal parts and profiles formed after welding.

This document does not apply to weldment dimensions and weld dimensions which are checked according to the main model.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, for dated references, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies to this document.

GB/T 1800.1 Geometrical product specifications (GPS) - ISO code system for tolerances on linear sizes - Part 1: Basis of tolerances, deviations and fits

GB/T 3375 Welding terminology

GB/T 19804 Welding - General tolerances for welded constructions - Dimensions for lengths and angles - Shape and position

QC/T 266 Extreme deviation for undeclared tolerance size of automobile parts - General requirements

3 Terms and definitions

The terms and definitions defined in GB/T 1800.1, GB/T 3375, GB/T 19804, QC/T 266, as well as the following terms and definitions, apply to this document.

3.1

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