



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 39424.1-2020

Road vehicles. Traffic accident analysis - Part 1: Vocabulary

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Foreword

GB/T 39424 "Road vehicles - Traffic accident analysis" is divided into 3 parts:

- Part 1: Vocabulary;
- Part 2: Guidelines for the use of impact severity measures;
- Part 3: Guidelines for the interpretation of recorded crash pulse data to determine impact severity.

This Part is Part 1 of GB/T 39424.

This Part is drafted in accordance with the rules given in GB/T 1.1-2009.

This Part uses the redraft law to modify and adopt ISO 12353-1:2020 "Road vehicles - Traffic accident analysis - Part 1: Vocabulary".

Compared with ISO 12353-1:2020, this Part has structural adjustments. The specific adjustments are as follows:

- ISO 12353-1:2020 Clause 2, Annex A and Bibliography are not adopted in this Part;
- ISO 12353-1:2020 Clauses 3, 4, 5, and 6 have been adjusted to Clauses 2, 3, 4, and 5 of this Part, respectively;
- ADD the Chinese pinyin index.

The technical differences between this Part and ISO 12353-1:2020 and their reasons are as follows:

- ADD terms and definitions such as 2.2 "accident participant", 2.22 "impact severity", 3.1.6 "retrospective investigation", 3.2.9 "center line of road", to adapt to the actual application in China;
- Delete the terms and definitions in ISO 12353-1:2020 such as 3.7 "towaway accident", 3.12.1 "non-fatal vehicle", 3.15 "towaway vehicle", 3.16 "non-towaway vehicle", 4.2.3 "roadside", 4.3 "road vehicle" and 4.4.8 "treatment". These terms and definitions do not conform to China's road traffic system;
- Delete Figure 1, Figure 2, Annex A and Bibliography of ISO 12353-1:2020. These contents do not meet the practical application of road traffic accidents in China.

This Part was proposed by Ministry of Industry and Information Technology of Road vehicles - Traffic accident analysis -

Part 1: Vocabulary

1 Scope

This Part of GB/T 39424 defines the terms and definitions relevant to the classification of road vehicle traffic accident analysis, accident-descriptive elements and data collection, crash analysis and reconstruction, data analysis and interpretation.

This Part is applicable to road vehicle traffic accident investigation, analysis and data application.

2 Classification

2.1

Road vehicle accident

Unintended event that involves at least one road vehicle in motion and leads to personal injury or property damage, or both.

2.2

Accident participant

A single road user or unit involved in a road vehicle accident.

Note: A single vehicle, its occupants, and a single pedestrian are all counted as an accident participant. Road environmental infrastructure or falling objects, animals, etc. are not counted as accident participants.

2.3

First harmful event

Event producing the first occurrence of personal injury or vehicle damage in a road vehicle accident.

2.4

Most harmful event

Event producing the most serious occurrence of personal injury or vehicle damage in a road vehicle accident.

Note: The most harmful event is evaluated for each accident-involved vehicle. If two or more events produce equivalent injury or crush, then select the event that caused the most serious damage for the first time as the most harmful event.

2.5

Accident classification

Classification of road vehicle accidents according to the following characteristics (including but not limited to):

- Classification by vehicle type,
- Classification by personal injury severity,
- Classification by vehicle damage severity,
- Classification by number of vehicles involved,
- Classification by first harmful event,
- Classification by location of the accident,
- Classification by the way the vehicles collide.

2.6

On-road accident

Road vehicle accident in which the first harmful event occurs on the road.

2.7

Off-road accident

Road vehicle accident in which the first harmful event occurs off the road.

2.8

Injury accident

Road vehicle accident in which at least one person is physically traumatized but no one dies.

2.9

Fatal accident

Road vehicle accident in which at least one person sustains a fatal injury.

2.10

Property damage accident

Road vehicle accident in which the only outcome is damage to vehicles, or other property, with no injury or death.

2.11

Damaged vehicle

Vehicle involved in an accident sustaining damage.

2.12

Undamaged vehicle

Vehicle involved in an accident not sustaining damage.

2.13

Single-vehicle accident

Road vehicle accident in which only one vehicle is involved.

2.14

Multivehicle accident

Road vehicle accident in which at least two vehicles are involved.

2.15

Accident-involved vehicle