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NATIONAL STANDARD OF THE
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ICS 43.020
T 04

GB 16735-2019

Replacing GB 16735-2004

Road Vehicle - Vehicle Identification Number (VIN)

道路车辆 车辆识别代号

Issued on: October 14, 2019

Implemented on: January 1, 2020

Issued by: State Administration for Market Regulation;

**Standardization Administration of the People's Republic of
China.**

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Road Vehicle - Vehicle Identification Number (VIN)

1 Scope

This Standard stipulates the content and structure of vehicle identification number, and the marking requirements and marking modification requirements of vehicle identification number.

This Standard is applicable to automobile, and its incomplete vehicle, trailer, motorcycle and moped.

Other vehicles that need vehicle identification number may also take this as a reference.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 15089 *Classification of Power-driven Vehicles and Trailers*;

GB 16737 *Road Vehicle - World Manufacturer Identifier (WMI) Code*;

GB/T 18410 *Vehicle Identification Number Bar-code Label*;

GB/T 18411 *Power-driven Vehicles Manufacturers Plate*;

GB/T 25978 *Road Vehicles - Plates and Label*;

GB 30509 *Identification for Passenger Cars and Their Parts*

3 Terms and Definitions

What is defined in GB/T 15089 and GB 16737, and the following terms and definitions are applicable to this document.

3.1 Vehicle Identification Number; VIN

Vehicle identification number refers to a group of character codes appointed by vehicle manufacturer with the purpose of identifying a certain vehicle.

3.2 World Manufacturer Identifier; WMI

continues to conduct manufacturing operations on complete vehicle.

3.10 Intermediate Manufacturer

Intermediate manufacturer refers to vehicle manufacturer which conducts manufacturing operations on vehicle manufactured in two stages or multiple stages. It is neither incomplete vehicle manufacturer nor final-stage manufacturer.

3.11 Year

Year refers to the calendar year of vehicle manufacturing, or, the model year determined by vehicle manufacturer.

3.12 Model Year

Model year refers to the year appointed by vehicle manufacturer to a certain independent vehicle model. As long as the practical manufacture cycle does not exceed 24 months, it may be inconsistent with the calendar year. If the practical manufacture cycle is before the New Year, model year shall be consistent with the calendar year. If the practical manufacture cycle passes the New Year, model year shall include, and merely include, January 1 of the calendar year that is corresponding with the appointed year code.

3.13 Assembly Plant

Assembly plant refers to manufacturing plant or manufacturing line, in which, vehicle manufacturer marks vehicle identification number (VIN).

3.14 Divider

Divider refers to symbols, character codes or actual boundary lines that are used to separate each part of vehicle identification number, or, stipulate the boundary (beginning and ending) of vehicle identification number.

3.15 Modification Identifier

Modification identifier refers to identifier that is used to determine re-marking or modification of vehicle identification number.

3.16 Check Digit

Check digit refers to an independent figure or letter X, which is used to check the correctness of the copying of vehicle identification number.

The selection of dividers (such as: ☆、★) shall be independently determined by vehicle manufacturer. Divider cannot use any character code of vehicle identification number, or, any character code that might cause confusion. Re-marking or modification identifier, and symbols that might cause confusion cannot be used.

5 Marking Position of Vehicle Identification Number

5.1 Each vehicle shall have a unique vehicle identification number, which shall be permanently and retentively marked on the vehicle. The composition and sequence of all the character codes of vehicle identification number marked on the same vehicle shall be identical. Except from the circumstance stipulated in Chapter 9, already-marked vehicle identification number cannot be modified.

5.2 On product label, vehicle identification number (Type-L₁ and Type-L₃ vehicle may be excluded) shall be marked. The type, marking position and marking requirements of product label shall comply with the stipulations in GB/T 18411.

5.3 Vehicle shall at least have a vehicle identification number that is directly engraved on an anti-corrosion and anti-abrasion part of the frame (in terms of vehicles without a frame, it shall be on a main load-bearing and unremovable part of the vehicle body). Specifically speaking:

- a) Vehicle identification number of Type-M₁ vehicle shall be engraved on a structural part in the engine compartment that can prevent from replacement, or, engraved on the door pillar. Due to the structural constraint, if there is no space for engraving, it may also be engraved on another structural part on the right side, except from the luggage compartment;
- b) In terms of trucks and all the draw-bar trailers whose maximum design total mass is more than, or equals to 12,000 kg, vehicle identification number shall be engraved on the external side of stringer on the front end of the right front leg (apart from vehicles that do not have a stringer);
- c) Vehicle identification number of other vehicles or trailers without a stringer shall be engraved on a structural part in the front area on the right side. If there is structural constraint, it may also be engraved on another structural part on the right side.

Parts with engraved vehicle identification number cannot be handled through modes like polishing, patching, gasket, chiseling and repainting (apart from the application of lacquering technology in design and manufacture for the purpose of protecting the engraved vehicle identification number). When being observed from the above (the front), the surface of a sufficiently large area around the engraved area shall not have any coverage. If there is coverage, the surface of such coverage shall clearly indicate

face of the container (atmospheric pressure tank) shall be less than, or, equals to 1,000 mm. If it is engraved on a connecting structural part on both sides (left and right), it shall be as close to the front end face of the container (atmospheric pressure tank) as possible.

5.8 Vehicle manufacturer shall mark vehicle identification number in at least one kind of accompanying documents.

6 Marking Modes and Requirements of Vehicle Identification Number

6.1 Vehicle identification number adopts human readable code, or, a combination of human-readable code and machine-readable code, or, shall be marked in the form of electronic data.

6.2 Vehicle identification number shall be directly engraved on vehicles; or, pasted on vehicles through a label; or, be marked through the mode of storing electronic data that complies with corresponding standard stipulations in an electronic control memory unit in an irrevocable way. In terms of vehicles other than Type-M1 vehicles (excluding Type-M₁ vehicles completed through the manufacture in multiple stages), vehicle identification number may also permanently and retentively be fixed on vehicles through a label.

When vehicle identification number adopts the mode of direct engraving for marking, the following requirements shall be satisfied:

- a) When vehicle identification number is marked in accordance with the stipulations in 5.3 and 5.7, in terms of automobiles and trailers, the height of directly engraved character codes shall be more than, or, equals to 7.0 mm; the depth of the character codes shall be more than, or, equals to 0.3 mm (the depth of passenger cars and closed trucks whose total mass is less than or equals to 3,500 kg shall be more than, or, equals to 0.2 mm). In terms of motorcycles, the height of directly engraved character codes shall be more than, or, equals to 5.0 mm; the depth of the character codes shall be more than, or, equals to 0.2 mm. The total length of the engraved vehicle identification number shall be less than, or, equals to 200 mm.
- b) Apart from marking vehicle identification number in accordance with the stipulations in 5.3 and 5.7, the height of directly engraved character codes shall be more than, or, equals to 4.0 mm.
- c) The typeface and the size of character codes of the engraved vehicle identification number shall be identical (except from vehicle identification number that is engraved on different parts). Moreover, the spacing between the

the vehicle identification number on the original vehicle. Thus, final-stage manufacturer shall take the responsibility of marking the vehicle identification number of the original vehicle in accordance with the marking position and marking modes stipulated in this Standard.

If final-stage manufacturer conducts manufacturing operations on incomplete vehicle without an intact driving cab, and the vehicle completed in multiple-stage manufacture belongs to Type-M₁ and Type-N₁ vehicles, then, the final-stage manufacturer shall take the responsibility of marking the vehicle identification number of the original vehicle in accordance with the marking position and marking modes of Type-M₁ and Type-N₁ vehicles stipulated in this Standard.

8 Compilation Rules of Vehicle Identification Number

8.1 Vehicle manufacturer shall formulate its own compilation rules of vehicle identification number in accordance with the stipulations in this Standard. The compilation rules of vehicle identification number shall include specific stipulations of the encoding rules of all character codes of vehicle identification number, the marking position and marking modes of vehicle identification number, etc.

8.2 Vehicle manufacturer's compilation rules of vehicle identification number shall be submitted to an authorized organization for review and registration.

8.3 Vehicle manufacturer shall mark vehicle identification number on each vehicle product in accordance with the compilation rules of vehicle identification number that have already been reviewed and registered.

8.4 Manufacturer of import vehicles shall comply with the stipulations in 8.1 ~ 8.3.

8.5 Export vehicles shall implement relevant requirements of vehicle identification number of the place of vehicle import.

9 Re-marking or Modification of Already-marked Vehicle Identification Number

9.1 Reasons for Re-marking or Modification of Vehicle Identification Number

9.1.1 When already-marked vehicle identification number needs to be re-marked or modified, vehicle manufacturer shall submit an application to the authorized organization. After obtaining the approval, vehicle manufacturer may conduct re-marking or modification of vehicle identification number. Vehicle manufacturer shall permanently keep relevant vehicle information after re-marking or modification; in accordance with relevant requirements, submit to the authorized organization for



Figure 3 -- Identifier of Re-marking or Modification

b) Vehicle manufacturer shall engrave the re-marked vehicle identification number (as it is shown in Figure 4) in a tightly connected position of the original vehicle identification number. In terms of Type-M₁, Type-N₁, Type-L₁ and Type-L₃ vehicles, if there is structural constraint, the re-marked vehicle identification number may also be engraved on other parts that comply with the stipulations in Chapter 5.

9.2.3 When vehicle manufacturer modifies vehicle identification number that is already engraved in accordance with the stipulations in Chapter 5, vehicle manufacturer shall satisfy the following requirements:

a) Vehicle manufacturer shall engrave an identifier of re-marking or modification (as it is shown in Figure 3) in a tightly connected space on both ends of the original vehicle identification number. The outer diameter of the identifier of re-marking or modification shall be more than, or, equals to the height of character codes of the original vehicle identification number; the depth shall be more than, or, equals to the depth of character codes of the original vehicle identification number.

b) Vehicle manufacturer shall engrave “X” on character codes that need modification in the original vehicle identification number; engrave the modified vehicle identification number (as it is shown in Figure 5) in a tightly connected position of the original vehicle identification number. In terms of Type-M₁, Type-N₁, Type-L₁ and Type-L₃ vehicles, if there is structural constraint, “X” may not be engraved; meanwhile, the modified vehicle identification number (as it is shown in Figure 6) may also be engraved on other parts stipulated in Chapter 5.

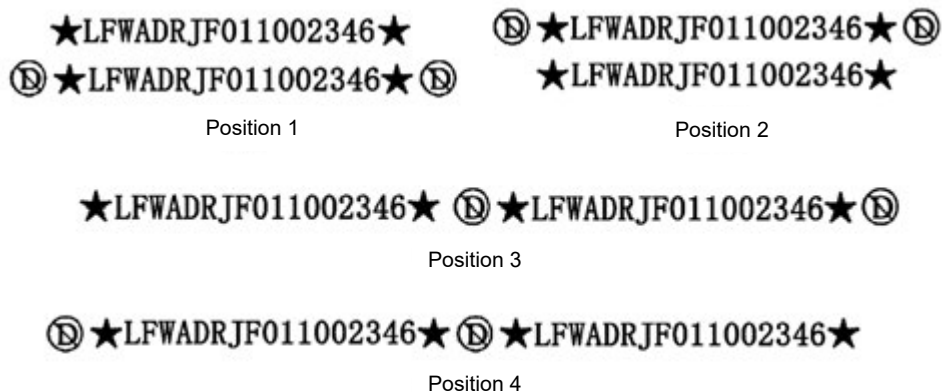


Figure 4 -- Sketch Map of the Position of Re-marked Vehicle Identification Number

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