

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية  
GCC STANDARDIZATION ORGANIZATION (GSO)



**GSO 1780/2010 (E)**

السيارات - الرقم المميز للمركبة - المتطلبات  
**Motor vehicle - Vehicle identification number (VIN) -  
Requirements**

ICS : 43.02

## **Motor vehicle - Vehicle identification number (VIN) - Requirements**

**Date of GSO Board of Directors' Approval** : 26/11/1431h (03/11/2010)  
**Issuing Status** : Technical regulation

**Foreword**

GCC Standardization Organization (GSO) is a regional Organization which consists of the National Standards Bodies of GCC member States. One of GSO main functions is to issue Gulf Standards /Technical regulations through specialized technical committees (TCs).

GSO through the technical program of committee TC No.( TC 2/SC 1) "Technical subcommittee for Road Vehicles and Tyres standards" has updated the GSO Standard No. GSO 1780/2006 "Motor vehicle - Vehicle identification number (VIN) - Requirements" The Draft Standard has been prepared by Kingdom of Saudi Arabia .

This standard has been approved as a Gulf Technical Regulation by GSO Board of Directors in its meeting No. (13), held on 26/11/1431h (3/11/2010) . The approved standard will replace and supersede the GSO standard No. (GSO 1780/2006) .

## MOTOR VEHICLE - VEHICLE IDENTIFICATION NUMBER (VIN) - REQUIREMENTS

### 1- SCOPE AND FIELD OF APPLICATION

This standard is concerned with the vehicle identification number (VIN) requirements. It applies to passenger cars, multipurpose passenger vehicles, multi-purpose goods vehicles, trucks, buses, tractors, trailers, incomplete vehicles, and motorcycles.

### 2- COMPLEMENTARY REFERENCES

2.1 GSO 1781 “Motor Vehicle - World Manufacturer Identifier”.

2.2 GSO 1782 “Motor Vehicle - Vehicle Identification Number (VIN) - Location and Attachment”.

2.3 GSO 591 “Road Vehicles - Types - Terms and Definitions”.

### 3- DEFINITIONS

3.1 **Vehicle Identification Number (VIN):** A structured combination of characters assigned to a vehicle by the manufacturer for identification purposes.

3.2 **World Manufacturer Identifier (WMI):** The first section of the VIN, designating the manufacturer of the vehicle. The code is assigned to a vehicle manufacturer in order to allow identification of the said manufacturer and, when used in conjunction with the remaining sections of the VIN, ensures uniqueness of the VIN for all vehicles manufactured in the world for a period of 30 years.

3.3 **Vehicle Attributes [Vehicle Descriptor Section (VDS)]:** The second section of the VIN. It provides information describing the general attributes of the vehicle.

3.4 **Check Digit:** The third section of the VIN. It is a single number or the letter X used to verify the accuracy of the transcription of the vehicle identification number.

3.5 **Body type:** The general configuration or shape of a vehicle distinguished by such characteristics as the number of doors or windows, cargo-carrying features and the roofline (e.g. sedan, hatchback).

3.6 **Engine type:** A power source with defined characteristics such as fuel utilized, number of cylinders, displacement, and net brake horse-power.

3.7 **Incomplete vehicle:** An assemblage consisting as a minimum of frame and chassis structure, power train, steering system, suspension system and braking system.

3.8 **Line:** A name that a manufacturer applies to a family of vehicles within a make which have a degree of commonality in construction, such as body, chassis or cab type.

3.9 **Manufacturer:** The organization responsible for the manufacture of the vehicle.

3.10 **High volume manufacturer:** means a manufacturer of 1000 or more vehicles of a given type each year.

- 3.11 Low volume manufacturer:** means a manufacturer of fewer than 1000 vehicles of a given type each year.
- 3.12 Model year:** The period starting with the first production of the new model and lasting until the following model is introduced. This period shall not exceed 24 months terminating by the end of the last month of the calendar year by which the model is designated.
- 3.13 Plant of manufacture:** The plant where the manufacturer affixes the VIN.
- 3.14 Type:** A class of vehicle distinguished by common traits including design and purpose. Passenger cars, multipurpose passenger vehicles, trucks, buses, trailers, incomplete vehicles and motor cycles are separate types.

#### 4- REQUIREMENTS

##### 4.1 General

- 4.1.1** Each vehicle manufactured in one stage shall have a VIN assigned by the manufacturer.
- 4.1.2** Each vehicle manufactured in more than one stage shall have a VIN assigned by the incomplete vehicle manufacturer.
- 4.1.3** Each VIN shall consist of seventeen (17) characters.
- 4.1.4** A check digit shall be a part of each VIN.
- 4.1.5** The check digit shall appear in position nine (9) of the VIN.
- 4.1.6** The VINs of any two vehicles manufactured within a 30 year period shall not be identical.

##### 4.1.7 Characters

Only the following Arabic numerals and capital roman letters shall be used in the VIN:

0123456789.

ABCDEFGHIJKLMNPRSTUVWXYZ.

- 4.1.8** All spaces provided for in the VIN must be occupied by a character specified in item 4.1.7.

##### 4.2 VIN Content

The VIN shall consist of four (4) sections (see Appendix A).

##### 4.2.1 First Section (World Manufacturer Identifier)

- 4.2.1.1** This section shall consist of three (3) characters that occupy positions one through three (1 - 3) in the VIN.
- 4.2.1.2** This section shall identify the world manufacturer and type of motor vehicle if its manufacturer produces 1000 or more vehicles of its type annually.
- If the manufacturer produces less than 1000 vehicles of its type annually, those three characters along with the third, fourth and fifth characters of the fourth section shall identify the manufacturer.
- 4.2.1.3** These characters are specified in this standard.

- 4.2.1.4 These characters are preassigned by organizations other than the manufacturer.
- 4.2.2 **Second Section [Vehicle Descriptor Section (VDS)]**
- 4.2.2.1 This section shall consist of five (5) characters that occupy positions four through eight (4 - 8) in the VIN.
- 4.2.2.2 This section shall identify the general attributes of the vehicle as specified in table (1).
- 4.2.2.3 For passenger cars, multipurpose passenger vehicles and trucks with GVW 4536 kg or less, the fourth character shall be alphabetic.  
The other characters may be either alphabetic or numeric.
- 4.2.2.4 The characters utilized and their placement within the section may be determined by the manufacturer but the attributes supplied by the manufacturer shall be in accordance with item 4.2.2.2.

**TABLE (1)  
TYPE OF VEHICLE AND ITS ATTRIBUTES (VDS)**

Type of Vehicle	Attributes
Passenger car	Line, series, body type, make, engine type and restraint system type
Multipurpose passenger vehicle	Line, series, body type, make, engine type, gross vehicle weight rating
Truck	Model or line, make, series, chassis cab type, engine type, brake system and gross vehicle weight rating
Bus	Model or line, make, series, body type, engine type and brake system
Trailer	Type of trailer, make, body type length and axle configuration
Incomplete vehicle	Model or line, make, series, cab type, engine type and brake system
Motorcycle	Type of motorcycle, make, line, engine type and net brake horse power

- 4.2.3 **Third Section**
- 4.2.3.1 This section shall consist of one (1) character that occupies position nine (9) in the VIN.
- 4.2.3.2 This section shall be the check digit whose purpose is to provide a means for verifying the accuracy of any VIN transcription.

**4.2.3.3** The check digit shall be calculated by carrying out the mathematical computation specified below after all other characters in VIN have been determined by the manufacturer.

**4.2.3.3.1** Assign to each number in the VIN its actual mathematical value and assign to each letter the value specified below:

**ASSIGNED VALUES**

A = 1	N = 5
B = 2	P = 7
C = 3	R = 9
D = 4	S = 2
E = 5	T = 3
F = 6	U = 4
G = 7	V = 5
H = 8	W = 6
J = 1	X = 7
K = 2	Y = 8
L = 3	Z = 9
M = 4	

**4.2.3.3.2** Multiply the assigned value for each character in the VIN by the position weight factor specified below:

<b><u>Character</u></b>	<b><u>Weight Factor</u></b>
1 <sup>st</sup>	8
2 <sup>nd</sup>	7
3 <sup>rd</sup>	6
4 <sup>th</sup>	5
5 <sup>th</sup>	4
6 <sup>th</sup>	3
7 <sup>th</sup>	2
8 <sup>th</sup>	10
9 <sup>th</sup>	Check digit
10 <sup>th</sup>	9
11 <sup>th</sup>	8
12 <sup>th</sup>	7
13 <sup>th</sup>	6

14 <sup>th</sup>	5
15 <sup>th</sup>	4
16 <sup>th</sup>	3
17 <sup>th</sup>	2

- 4.2.3.3.3 Add the resulting products and then divide the total by 11.
- 4.2.3.3.4 The numerical remainder shall be the check digit (0 - 9) except the remainder ten (10).
- 4.2.3.3.5 If the remainder is 10 the letter “X” shall be used to designate the check digit.
- 4.2.3.4 A sample check digit calculation is shown in Appendix (B).
- 4.2.4 **Fourth Section [Vehicle Indicator Section (VIS)]**
- 4.2.4.1 This section shall consist of eight characters that occupy positions ten through seventeen (10 - 17) of the VIN.
- 4.2.4.2 The last five (5) characters of this section shall be numeric for passenger cars and for multipurpose passenger vehicles and trucks with a gross vehicle weight rating of 4536 Kg or less.
- 4.2.4.3 The last four (4) characters of this section shall be numeric for all other vehicles.
- 4.2.4.4 The first character of this section shall represent the vehicle model year.
- 4.2.4.5 The model year shall be designated as indicated in table (2)

**TABLE (2)**

<b>Model year</b>	<b>Code</b>
2005	5
2006	6
2007	7
2008	8
2009	9
2010	A
2011	B
2012	C
2013	D
2014	E
2015	F
2016	G
2017	H
2018	J

<b>Model year</b>	<b>Code</b>
2019	K
2020	L
2021	M
2022	N
2023	P
2024	R
2025	S
2026	T
2027	V
2028	W
2029	X
2030	Y
2031	1
2032	2
2033	3
2034	4
2035	5
2036	6
2037	7
2038	8

- 4.2.4.6** The second character of this section shall represent the plant of manufacture.
- 4.2.4.7** The third through the eight characters (3 - 8) of this section shall represent the number sequentially assigned by the manufacturer if the manufacturer produces 1000 or more vehicles of its type annually.
- 4.2.4.8** If the manufacturer produces less than 1000 motor vehicles of its type annually, the third, fourth and fifth characters (3 - 5) of this section combined with the three characters of the first section (4.2.1) shall uniquely identify the manufacturer, make and type of the motor vehicle and the sixth, seventh and eight characters of the fourth section shall represent the number sequentially assigned by the manufacturer in the production process.
- 4.3** Vehicles with VIN assigned in compliance with ISO standard is deemed to comply with the requirements of this standard.

**5- REPORTING OF VIN**

- 5.1** Sixty days at least before dispatching the first consignment of any type of vehicles, in each year, the manufacturer shall send to the concerned authority the unique identifier for each make and type of vehicle it manufacturers with the list of VIN using the identifier.
- 5.2** The list of vehicles to be exported for the entire year with the specific VIN list shall be send to the concerned authority for each model year. This may be sent just before the end of each model year, if not possible at the start of the model year.

**APPENDIX (A)**

**SAMPLE VIN**

1 F A  
(1<sup>st</sup> Section)

B P 2 8 A  
(2<sup>nd</sup> Section)

4  
(3<sup>rd</sup> Section)

T F 1 4 3 8 9 0  
(4<sup>th</sup> Section)

VEHICLE IDENTIFICATION  
SECTION (VIS)

CHECK  
DIGIT

VEHICLE DESCRIPTION  
SECTION (VDS)

WORLD MANUFACTURER  
IDENTIFICATION (WMI)

**Appendix (B)**

**VEHICLE IDENTIFICATION NUMBER**

**(VIN - 17 CHARACTERS)**

E.g. American vehicle produced by Chrysler - Model year 1996.

- IB3 BR 65E5 TV 100027.

<b>WMI</b>	<b>VDS</b>	<b>CHECK DIGIT</b>	<b>VIS</b>
IB3	BR65E	5	TV 100027
3 Characters	5 Characters	1 Character	8 Characters

Appendix (C)

CHECK DIGIT CALCULATION

VIN position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sample VIN	1	G	4	A	H	5	9	H		5	G	1	1	8	3	4	1
Assigned value	1	7	4	1	8	5	9	8		5	7	1	1	8	3	4	1
Weight factor	8	7	6	5	4	3	2	10		9	8	7	6	5	4	3	2
Multiply assigned value	8	49	24	5	32	15	18	80		45	56	7	6	40	12	12	2
Add all products	8 + 49 + 24 + 5 + 32 + 15 + 18 + 80 + 0 + 45 + 56 + 7 + 6 + 40 + 12 + 12 + 2																
Divide the total by 11	4 11/11 = 37 4/11																

The remainder is 4; this is the check digit to be inserted in position nine (9) of the VIN.