

March 22, 2019 USG 4817 Part 1

The Honorable Heidi King Deputy Administrator National Highway Traffic Safety Administration 1200 New Jersey Avenue, SE Washington, DC 20590

Subject: Revision to General Motors' Vehicle Identification Number decoding for 2020 Model Year

Dear Ms. King:

A revision to General Motors' Vehicle Identification Numbering (VIN) Standard for the 2020 Model Year dated March 20, 2019, is submitted per the VIN reporting requirements of 49 CFR Part 565.16(c).

For additional copies of any of the material submitted to the NHTSA for consideration at this time, any additional information regarding items herein, or if further discussion of this matter will be of assistance to the agency during its consideration of this petition, please contact me at the following address:

Brian Latouf, Executive Director Global Safety and Field Investigations, Regulations and Certification General Motors LLC, North America GM Global Technical Center 29427 Louis Chevrolet Rd VEC Podium / Floor 02 / Office 2F6-04 Warren, Michigan 48093-2350

Questions may also be directed to either Ms. Lucia Propst, Safety Regulations and Certification, in GM's Warren office; or Mr. Matthew Jerinsky, of GM's Washington D.C. office.

Sincerely,

Brian Latouf, Executive Director Global Safety and Field Investigations

Attachment cc: Office of Executive Secretariat Rosalind Proctor, Division Chief, Consumer Programs Division

General Motors LLC

2020

This Vehicle Identification Numbering Standard is in compliance with Federal Motor Vehicle Safety Regulation 565 Vehicle Identification Numbering Standard

March 20, 2019

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Revision History:

Rev #	Revisions
1.0	Removal of Product Page - Chevrolet Impala
	Change to Product Page 28 - 8: ENGINE TYPE From: " G: L96 - ENGINE GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM" to: "J: L86 - ENGINE GAS, 8 CYL, 6.2L, SIDI VVT, AFM, E85 MAX, ALUM, GM"



Purpose

The purpose of this standard is to define the uniform composition of Vehicle Identification Numbers (VIN) applied to GM vehicles marketed in the United States, U.S. Territories, Canada and vehicles manufactured in US, Canada, and Mexico. This GM Standard has been promulgated in compliance with U.S. Federal Motor Vehicle Safety Regulation Part 565 (FMVSR 565) administered by the National Highway Traffic Safety Administration (NHTSA) and with Canada Motor Vehicle Safety Standard 115 (CMVSS 115) administered by Transport Canada.

Certain vehicles manufactured by GM for titling and registration elsewhere in the world may have other requirements with which they must comply, thus precluding the use of this VIN Standard. However, the VIN described herein does comply with the vehicle identification numbering standard of the International Organization for Standardization (ISO), and should be acceptable in many countries around the world.

Maintenance & Operating Responsibilities

Responsibility for updating the code tables contained herein has been established, and is shown on each table. As information or revisions to existing tables become known, the updated tables of codes for the coming model years(s) should be submitted by the authorized activity to North American Product Engineering. Mail Code 480-210-2G1 30001 Van Dyke Ave, Warren MI 48090-9020. Product Engineering has responsibility for publication and dissemination of the updated hardcopy model year tables of VIN data throughout General Motors.

A copy of the updated materials is sent to Global Safety Center (GSC), which has responsibility for review and approval of the coding tables specified. The GSC has the responsibility for submitting these tables of VIN data, and any revisions thereto, to the National Highway Traffic Safety Administration (NHTSA).

Requests for any changes or refinements to the information content (not coding tables) of these Standards shall be directed to Engineering. The revision request must provide a comprehensive explanation for the requested change. VIN Engineering is responsible to review revision requests and make appropriate modifications before issuing revised pages to the Standards. Upon approval of proposed revisions by involved Divisions and Staffs, revisions to the Standards are incorporated into the text of revised pages and are distributed and posted to the Labels, Literature & VIN website.

The Engine RPO and corresponding VIN Codes for Passenger Cars, Light-Duty Trucks (LDT), and Multi-Passenger Vehicles (MPV) that are published in this standard are also updated in the Production Order Management Systems (POMS) and the Integrated Scheduling Project (ISP) by VIN Engineering.

VIN DREs of GM regions will be responsible for distribution of this Standard to persons or activities of their Unit or Region who are affected by or have a need for this information.

The code* definitions contained in the tables of interpretive data that follow provide for translation of the characters comprising any GM VIN, while at the same time they provide the information needed to compose the correct VIN for a GM vehicle. The tables of interpretive data are organized in Sections, and are described as follows:

*Only Arabic numerals and English alphabetic capital letters are permitted in GM VINs. However, I, O (oh), and Q, and special characters are <u>not</u> allowed as stated in FMVSR 565 and/or CMVSS 115 and/or ISO Standards.



Organization and Description of VIN Positions

VIN Positions 1~3

Positions 1~3 in the VIN are designated for the World Make/Manufacturer Identifiers (WMI). WMIs are assigned to General Motors by the Society of Automotive Engineers (SAE). This indicates the country of origin, the make/manufacturer, and type/brand of vehicle.

VIN Position 4 – Passenger Car

Position 4 designates the vehicle line. This is most commonly, but not always, the same as the book number. In the instance a book number has two characters, the second character is used to indicate the vehicle line.

VIN Position 4 - MPV, Light Duty Truck & Incomplete Vehicles

Position 4 designates the Gross Vehicle Weight Rating (GVWR), brake system and body style.

VIN Position 5 – Passenger Car

Position 5 designates the car series. This includes the various trim levels and badges for a vehicle line.

VIN Position 5 – MPV, Light Duty Truck & Incomplete Vehicles

Position 5 designates the chassis of the vehicle. If a vehicle is equipped with either two wheel drive or four wheel drive, the 5th position will reflect which drive train is installed on the vehicle. Some vehicles however will have a 5th position similar to that of a passenger car, where the book number is used. In the instance the book number has two characters, the second character is used to indicate the vehicle chassis.

VIN Position 6 – Passenger Car

Position 6 designates the body styles for each vehicle.

VIN Position 6 - MPV, Light Duty Truck & Incomplete Vehicles

Position 6 designates the series of the vehicle. Like position 5 for passenger car, this includes the various trim levels and badges for a vehicle line.

VIN Position 7

Position 7 is an alpha only character, which designates the restraint system used in the vehicle.

VIN Position 8

Position 8 is an alpha/numeric character which designates the engine used in the vehicle.

VIN Position 9

Position 9 designates the Check Digit. The Check Digit is an alpha/numeric character which is calculated by the composition of the VIN.

See the Check Digit section for an explanation on the calculation of the check digit, and an example.

VIN Position 10

Position 10 designates the model year of the vehicle.

VIN Position 11 Position 11 designates the plant code the vehicle was built.

VIN Positions 12~17 Positions 12 through 17 represent the number sequentially assigned by the manufacturer in the production process.



Check Digit

A check digit shall be provided as part of each vehicle identification number. The check digit shall occupy the ninth position in the

The check digit is determined by carrying out the mathematical computation as follows:

(1) Assign to each number in the vehicle identification number its actual mathematical value, and assign to each letter the **Table 1: Alpha Numeric Conversion Factor**

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

(2) Multiply the assigned value for each position in the vehicle identification number by the weight factor specified in the

1st	8
2nd	7
3rd	6
4th	5
5th	4
6th	3
7th	2
8th	10
9th	0

Table 2: Position and Weight Factor

10th	9
11th	8
12th	7
13th	6
14th	5
15th	4
16th	3
17th	2

(3) Add the resulting products and divide the total by 11.

(4) The remainder is the check digit, which will be inserted in the ninth position. If the remainder is 0-9, the check digit is

Check Digit (continued)

EXA	MPLE:																
VIN Position	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>
VIN Example	1	G	2	N	G	1	2	Е	<u></u>	2	М	9	2	3	4	5	6
ASSIGNED VALUE	1	7	2	5	7	1	2	5	Ъ	2	4	9	2	3	4	5	6
MULTIPLY	х	х	x	х	х	х	x	x	<u></u>	х	х	x	x	x	х	x	х
BY WEIGHT <u>FACTOR</u>	<u>8</u>	<u>7</u>	<u>6</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>10</u>	<u></u>	<u>9</u>	<u>8</u>	<u>7</u>	<u>6</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>2</u>
ADD PRODUCTS	8+	49	4	+ 12 + 2	25 + 2	8 + 3 +	- 4 + 5	0	<u>Þ</u>		+18+3	32+63	+12+1	5+16+	-15+1	2 = 36	2
DIVIDE BY 11	362/1	11 = 32	2 + 10	/11, re	emaino	ler = 1	.0										
Therefore																	

 $\label{eq:check_dispersion} CHECK \ DIGIT \ is: \ X \qquad (It \ will \ appear \ as \ the \ character \ in \ the \ 9th \ position \ of \ the \ VIN)$

Table 3: Ninth Position Check Digit Values

				0							
Fractional	0	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11
Equivalent	0	0.091	0.182	0.273	0.364	0.455	0.545	0.636	0.727	0.818	0.909
Check Digit	0	1	2	3	4	5	6	7	8	9	Х

Passenger Car Vehicle Identification Numbering System





Positions 12 through 17 represent the number sequentially assigned by the

manufacturer in the production process.



Roof Side (all seating rows), Knee(s) (1st row)





- Front Seat Side (1st row), Roof Side (all seating rows) S: AYF - Active Manual Belts, Airbags - Driver & Passenger Front
- (1st row), Front Seat Side (1st row) & Rear Seat Side (2nd row), Roof Side (all seating rows), Knee(s) (1st row)

Chevrolet Malibu



row), Front Seat Side (1st row) & Rear Seat Side (2nd row), Roof

Side (all seating rows), Knee(s) (1st row)



Positions 12 through 17 represent the number sequentially assigned by the manufacturer in the production process.



6: 48 - Sedan, 4 - Door, 4 Window, Hatchback

manufacturer in the production process.

Light Duty Trucks, MPV & Incomplete Vehicle Identification Numbering System







Buick Encore

Positions 12 through 17 represent the number sequentially assigned by the manufacturer in the production process.

















Chevrolet Express



Chevrolet Silverado









<u>Chevrolet Trax/Tracker</u>



12~17: SEQUENCE NUMBER

Positions 12 through 17 represent the number sequentially assigned by the manufacturer in the production process.







<u>GMC Sierra</u>													
typical vin 1	G T N	1 L	C B	Х	L	F	1	2	3	4	5	6	
VIN POS 1	2 3 4	56	7 8	9	10	11	12	13	14	15	16	17	
										ŕ		·;	
	WMI V	,				<u> </u>			EQUENC	e nume	BER		
GVWR/BRA	KE/BODY STYLE				<u> </u>		PLANT L	OCATIO	N				
	CHASSI	V		<u> </u>			EL YEAR	-]				
		SERIES	」 <u>↓</u>		CHEC	K DIGIT	_	J					
			<u> </u>		NE TYPE	_							
			RESTRA	AINT SYSTE	-								
~3: WORLD MAKE/MANUFAC1: Region of Build	furer identifier (V	VMI) Valid Combin	ations		5~6: (9	CHASSIS S:	SERIES		00 Flee	t/Base 4	1WD		
1: United States		1GT	ations		9	э. Т:			00 SLE		IVD		
3: Mexico		1GD			9	U:			00 SLT				
2: Manufacturer		3GT			9	V:			00 AT4				
G: General Motors		3GD			9	W:	GMC S	ierra 35	00 Dena	ali 4WD			
3: Vehicle Brand/Type					9	9:	GMC S	ierra 4V	VD, (Noi	n-US, No	on-Cana	da)	
T: GMC Truck													
D: GMC Incomplete					7: RES		T SYSTEI						
					E:								er-Front
4: GVWR/BRAKE SYSTEM/BOD		Body Style				(1st ro	ow), Froi	nt Seat S	Side (1s	t row), l	Roof Sid	e (all se	ating rows)
	03 - Commercial	43 - Four (4)		_	8: EN0	GINE TY	PE						
GVW (Lbs)/ Brake System	Special Cutaway,			D:	L84 -E	NGINE (GAS, 8 C	YL, 5.3L	., DI, DF	M, ALUN	4, GEN 5	, VAR 2	
	Two (2) Door Cab pick-up, Motor	Extended Cab		F:	L82 - I	ENGINE	GAS, 8 (CYL, 5.31	L, DI, AF	M, ALU	M, GEN S	5, VAR 1	
	Home Chassis	Cab/Utility	Cab		H:	LV3 - I	ENGINE	GAS, 6 (CYL, 4.3	L, GEN S	5, SIDI, V	'6, VVT,	OHV, E85 MAX
Class E: 6,001-7,000 Hyd.	Ν	Р	R			ALUM							
Class F: 7,001-8,000 Hyd.		U	V		K:	L3B - I	ENGINE	GAS, 4 (CYL, L4,	2.7L, SI	DI, VVT,	TURBO	, DOHC, ALUM
Class H: 9,001-10,000 Hyd.	0	1	2		L:	L87 - I	ENGINE	GAS, 8 (CYL, V8,	6.2L, DI	I AFM, A	LUM, GI	EN 5
Class 3: 10,001-14,000 Hyd.	3	4	5		T:	LM2 -	ENGINE	DIESEL	L, 6 CYL,	, 3.0L, C	RI, L6, D	OHC, TI	IRBO, VGT,
						ALUM							
5~6: CHASSIS/SERIES					Y:			DIESEL	, 8 CYL,	6.6L, DI	, V8, TU	RBO, DU	RAMAX, GEN 5
Book 1 8 A: GMC Sierra 1500 F	+ (D 214/D				-	VAR. 1	ENGINE	CAC 0.					
 8 A: GMC Sierra 1500 F 8 B: GMC Sierra 1500 S 					7:	LOI - I	EINGINE	GAS, 8 (JIL, 0.0	L, SIDI,	VVI, CA	STIKUN	
8 C: GMC Sierra 1500 S					9: CHE	ECK DIG	IT						
8 D: GMC Sierra 1500 S							lated by	POMS					
8 F: GMC Sierra 1500 D	enali 2WD						5						
8 L: GMC Sierra 2500 F	eet/Base 2WD				10: M0	ODEL YI	EAR						
8 M: GMC Sierra 2500 S	LE 2WD				L:	2020							
8 N: GMC Sierra 2500 S	LT 2WD												
8 P: GMC Sierra 3500 F							CATION						
8 R: GMC Sierra 3500 S						•	sition 1 i	<u>s "1" (U</u>	<u>(SA):</u>				
8 S: GMC Sierra 3500 S					F:	Flint	7						
	Non-US, Non-Canada)				Z: Whon	Fort W	2	ຸ"2" (N	lovico).				
 9 A: GMC Sierra 1500 F 9 B: GMC Sierra 1500 S 						Silao	sition 1 i	<u>5 3 (</u> M	iexicoj:				
9 C: GMC Sierra 1500 S					u:	JIIdU							
 9 C: GMC Sierra 1500 E 9 D: GMC Sierra 1500 S 					12~17	7: SEOU	ENCE NI	JMBER					
9 E: GMC Sierra 1500 A										e numh	er seam	entially :	assigned by the
9 F: GMC Sierra 1500 D							in the p	-			Jugar		
9 L: GMC Sierra 2500 F													
9 M: GMC Sierra 2500 S													
 9 M: GMC Sierra 2500 S. 9 N: GMC Sierra 2500 S. 	LT 4WD												









Medium Duty Trucks & Incomplete Vehicle Identification Numbering System



Chevrolet Low Cab Forward TYPICAL 5 4 D В D I 1 7 Х L S F 2 3 4 5 6 VIN 2 3 5 6 7 8 9 10 13 1 11 12 14 15 16 17 VIN POS 4 WMI SEQUENCE NUMBER GVWR/BRAKE/BODY STYLE MODEL COMBINATION SERIES PLANT LOCATION LINE/CAB TYPE MODEL YEAR CHECK DIGIT ENGINE TYPE CHASSIS 8: ENGINE TYPE 1~3: WORLD MAKE/MANUFACTURER IDENTIFIER (WMI) 1: Region of Build Valid Combinations L96 - ENGINE GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM B: J: Japan JAL LC8 - ENGINE LPG/CNG, 8 CYL, V8, 6.0L, SFI, GEN 1, GMNA C: 5: United States 54D 6: I1B - ENGINE DIESEL, 4 CYL, 5.2L, 4HK1TC 215HP 2: Manufacturer A: Isuzu Motors Ltd. 9: CHECK DIGIT 4: Spartan Motors Chassis Inc. 0~9, X - Calculated by Manufacturer 3: Vehicle Brand/Type L: Incomplete Vehicle 10: MODEL YEAR D: Incomplete Vehicle L: 2020 4: GVWR/BRAKE SYSTEM/BODY STYLE 11: PLANT LOCATION Body Style S: Charlotte, Michigan 03 - Commercia Fujisawa, Japan 7: Special Cutaway, GVW (Lbs)/ Brake System 43 - Four (4) Door Two (2) Door Cab Crew Cab/Utility 12: MODEL COMBINATION pick-up, Motor 6500XD/4HK1 Diesel/25,950lbs G: **Home Chassis** Class 3: 10,001-14,000 В Hyd В K: 4500XD/4HK1 Diesel/16,000lbs Class 4: 14,001-16,000 С С 4500HD/4HK1 Diesel/14,500lbs Hyd 0: Class 5: 16,001 - 19,500 Hyd. Е Е 3: 5500XD/4HK1 Diesel/19,500lbs Class 6: 19,501 - 26,000 Air К 8: 3500 & 4500/Gas 5500HD/4HK1 Diesel/17,950lbs 9: 5: MAKE/SERIES D: GM Chevrolet 3500 / 3500HD / 4500 / 4500HD / 4500XD 13~17: SEQUENCE NUMBER E: GM Chevrolet 5500HD/5500XD Positions 13 through 17 represent the number sequentially assigned by the manufacturer in the production process. F: GM Chevrolet 6500XD 6: LINE/CAB TYPE J: Non-Tilt Cab, BBC = 110 Inches S: Tilt Cab, BBC = 81 Inches W: Tilt Cab, BBC = 71 Inches 7: CHASSIS TYPE 1: 4x2, 2 Axles, 1 Driving

Chevrolet Silverado Medium Duty

