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CRANE CARRIER COMPANY

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September 20, 1989

ORIGINAL

Administrator
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C. 20590

Jpg

Attention: VIN Coordinator

Gentlemen:

Enclosed is a copy of Crane Carrier Company's VIN decoding information, A305-120, Revision E.

We caught an error in our coding for the CCC's 1990 Model Class 8 trucks. This error was caught before this coding was used.

Yours truly,

Kenneth L. Lawrence

Kenneth L. Lawrence
Vice President of Engineering

KLL/ch
encls.

Ref. No. 0989-54

STANDARD - VEHICLE IDENTIFICATION NUMBER (VIN)

SUBJECT: Procedures for assigning "Federal" vehicle identification numbers (VIN) to Crane Carrier Company built trucks.

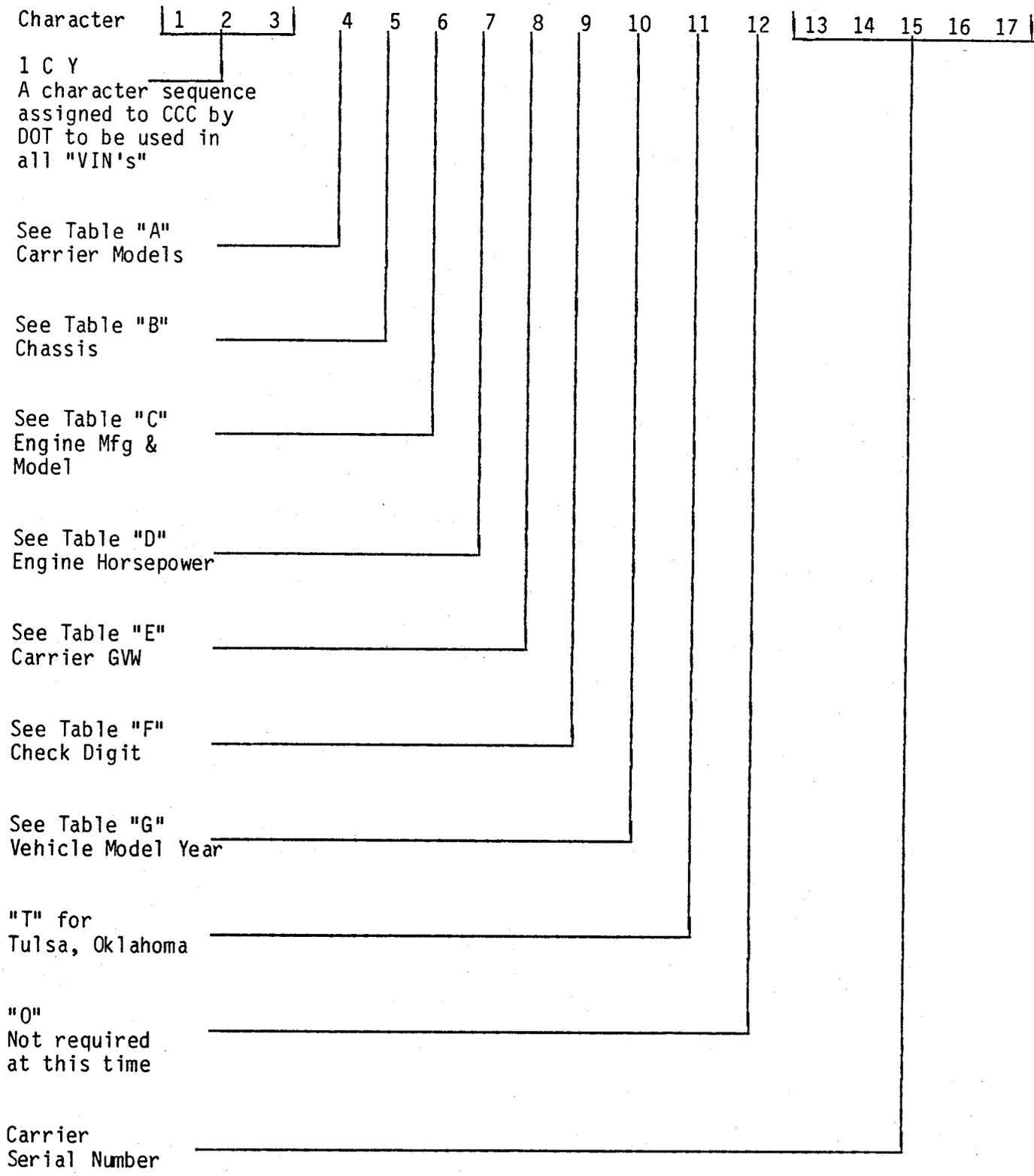
REF: Part 571.115, Standard No. 115 Federal Register and Part 565, VIN - Content Requirements

PURPOSE: To standardize on specific vehicle identification methods.

REQUIREMENTS:

1. All vehicles will have a "VIN" assigned by the manufacturer.
2. All numbers and letters may be used in the "VIN", except I, O, & Q. The minimum height is 3/32.
3. The number should be stamped on a label riveted to the inside of the L.H. cab door, and printed on the Manufacturer's Certificate of Origin.
4. The vehicle identification number consists of seventeen (17) significant characters. If all characters are not used, a zero (0) must be substituted so all spaces will be filled. The number will be assigned by the Engineering Department and referenced on the Engineering Model Sheets.

5. The number will be "made up" as indicated in the following example:



NOTE: If carrier model is Glider Kit, characters 5 thru 8 are "X".

Table "A"

<u>Model (w/Air Brakes & Diesel Engines)</u>	<u>Code</u>
Century II (M)	A
Centurion (F/FT)	B
Low Entry (S/L/LT)	C
Drill-Rig (DR)	D
Corsair (WS)	E
Equipment Carrier	F
Integrated Front Loader (IFL)	G
Integrated Rear Loader (IRL)	H
Integrated Side Loader (ISL)	J
Glider Kit (GK)	K
Recycle Equipment (Various)	L

Table "B"

<u>Drive Configurations</u>	<u>Code</u>
4 x 2	A
4 x 4	B
6 x 4	C
6 x 6	D
8 x 4	E
8 x 6	F

Note: These drive configurations include only permanently mounted axle assemblies

Table "C"

Engine Models

<u>CATERPILLAR</u>	<u>Code</u>	<u>CUMMINS</u>	<u>Code</u>
3208/T	A	6CT8.3	L
3306TA	B	LTA-10	M
3406TA	C	6CTA8.3	N
3408TA	D	NTC/NHHTC-300/350	P
		6BT(A)5.9	R
<u>DDAD</u>			
8.2/T	E		
6-71/6V-71/TA/TAC	F		
8V-71	G		
8V-92TA	H		
12V-71TA	J		
Series 60	K		

Table "D"

<u>Engine Horsepower</u>	<u>Code</u>
150 to 199	1
200 to 249	2
250 to 324	3
325 to 399	4
400 to 525	5

Table "E"

<u>Carrier GVW</u>	<u>Code</u>
Not greater than 3000 lbs.	A
3001 - 4000 lbs.	B
4001 - 5000 lbs.	C
5001 - 6000 lbs.	D
6001 - 7000 lbs.	E
7001 - 8000 lbs.	F
8001 - 9000 lbs.	G
9001 - 10,000 lbs.	H
10,001 - 14,000 lbs.	3
14,001 - 16,000 lbs.	4
16,001 - 19,500 lbs.	5
19,501 - 26,000 lbs.	6
26,001 - 33,000 lbs.	7
33,001 lbs. and over	8

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Table "F"

S5.2 The check digit is determined by carrying out the mathematical computation specified in S5.2.1 - S5.2.4.

S5.2.1 Assign to each number in the vehicle identification number its actual mathematical value and assign to each letter the value specified for it in Table IV.

Table IV

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	

S5.2.2 Multiply the assigned value for each character in the vehicle for each character in the vehicle identification number by the weight factor specified for it in Table V. Multiply the check digit by 0.

Table V

Character and Weight Factor

1st	8
2nd	7
3rd	6
4th	5
5th	4
6th	3
7th	2
8th	10
Check Digit	0
9th	9
10th	8
11th	7
12th	6
13th	5
14th	4
15th	3
16th	2

S5.2.2 Add the resulting products and divide the total by 11.

S5.2.4 The remainder is the check digit. If the remainder is 10, the check digit is X.

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Table "G"
Vehicle Model Year

Year	Code
1980	A
1981	B
1982	C
1983	D
1984	E
1985	F
1986	G
1987	H
1988	J
1989	K
1990	L
1991	M
1992	N
1993	P
1994	R
1995	S
1996	T
1997	V
1998	W
1999	X
2000	Y
2001	1
2002	2
2003	3
2004	4
2005	5
2006	6
2007	7
2008	8
2009	9
2010	A
2011	B
2012	C

Example:

Vehicle Identification Number Character	1	G	4	A	H	5	9	H	4	5	G	1	1	8	3	4	1
Assigned Value	1	7	4	1	8	5	9	8	4	5	7	1	1	8	3	4	1
Multiply by Weight Factor	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
<hr/>																	
Add Products	8+49+24+5+ 32+15+18+ 80+0 45+56+ 7+ 6+40+12+12+ 2=																411

Divide by 11

$$411/11 = 37 \text{ } 4/11$$

Check Digit

4 (compare to character in 9th position)

ORIGINAL RELEASE 7/3/1980 CRM
REVISION A 49252 11/19/1981 CRM
REVISION B 53767 7/8/1986 KLL
REVISION C 55244 8/24/1988 KLL
REVISION D 56197 8/14/1989 KLL
REVISION E 56331 9/20/1989 KLL