

CRANE CARRIER COMPANY

01-022-N11B-7848

SEARCHED
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AUG 23 2000

August 23, 2000

ORIGINAL

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

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Attention: VIN Coordinator

Gentlemen:

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

We have deleted the integrated lines (IFL, IRL, ISL) and the Century II (M) in Table A. Several changes have been made in Table C also. With the Caterpillar engine, we have split several of the engines according to horsepower, and we have also added the ISL and ISM engines; likewise we have split the Cummins engines according to horsepower. With the Detroit Diesel engine, we have removed all except the Series 50.

This will first be used on our vehicles starting September 4, 2000.

Sincerely,

Kenneth L. Lawrence

Kenneth L. Lawrence
Vice President of Engineering

KLL/ch

Encls.

Ref. No. 0800-17

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STANDARD - VEHICLE IDENTIFICATION NUMBER (VIN)

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

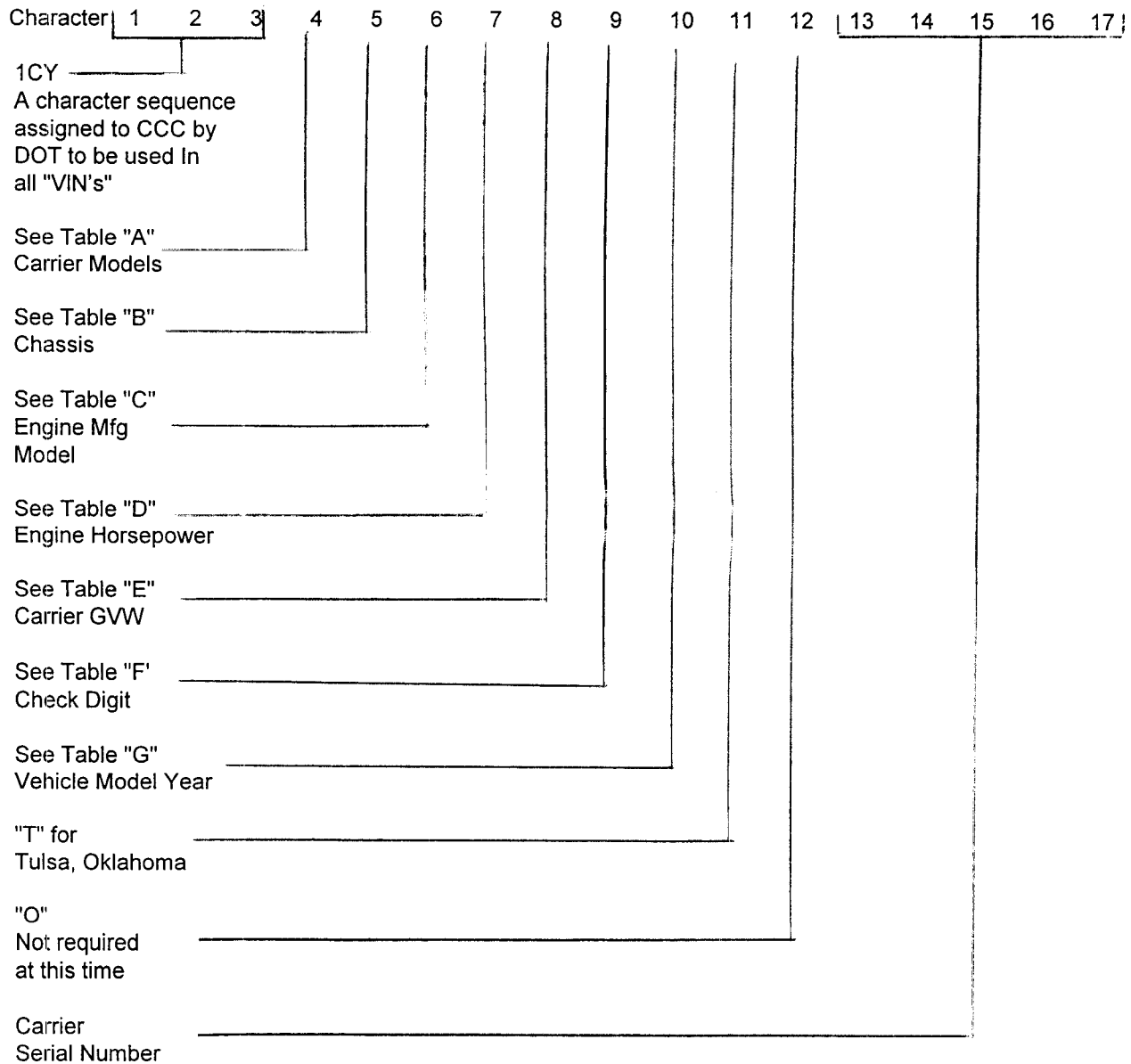
REF: Part 571.115, Standard No. 115 Federal Register and Part 565, VIN - Content Requirements

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 Carrier Line Set Ticket.

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"

Model (w/Air Brakes & Diesel Engines)	Code
Centurion (F/FT/LCF)	A
Low Entry (S/L/LT/LD/LW/LT2)	B
Drill Rig (DR/IR)	C
Equipment Carrier (Varies)	D
Glider Kit (GK)	E

Table "B"

Drive Configurations	Code
4 x 2	A
4 x 4	B
6 x 4	C
6 x 6	D
8 x 4	E
8 x 6	F
Other	G

Note: These drive configurations include only permanently mounted axle assemblies

Table "C"

Engine Models

CATERPILLAR	Code	CUMMINS	Code
3116/3126 (150-199 hp)	A	B5.9/ISB (150-199 hp)	I
3116/3126 (200-249 hp)	B	B5.9/ISB (200-249 hp)	J
3116/3126 (250-324 hp)	C	C8.3/ISC (200-249 hp)	K
C-10 (249-324 hp)	D	C8.3/ISC (250-324 hp)	L
C-10 (325-399 hp)	E	ISL (310-350 hp)	M
C-12 (325-399 hp)	F	ISM (250-324 hp)	N
C-12 (400-524 hp)	G	ISM (325-399 hp)	O
		ISM (400-524 hp)	P
DDC			
Series 50	H		

Table "D"

Engine Horsepower	Code
100 to 149	1
150 to 199	2
200 to 249	3
250 to 324	4
325 to 399	5
400 to 524	6
525 to 599	7

Table "E"

Carrier GVW	Code
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.

S5.21 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 = 5	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	5
7th	2
8th	10
Check Digit	0
9th	9
10 th	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.

Table "G"

Vehicle Model Year

Year	Code
1980	A
1981	B
1982	C
1985	D
1984	E
1985	F
1986	G
1987	H
1988	J
1989	K
1990	L
1991	M
1992	N
1995	P
1994	R
1995	S
1996	T
1997	V
1998	W
1999	X
2000	Y
2001	1
2002	2
2005	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
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 4/11																
Check Digit	4 (compare to character in 9th position)																

ORIGINAL RELEASE 07/03/1980 CRM
REVISION A 49252 11/19/1981 CRM
REVISION B 53767 07/08/1986 KLL
REVISION C 55244 08/24/1988 KLL
REVISION D 56197 08/14/1989 KLL
REVISION E 56331 09/20/1989 KLL
REVISION F 57792 09/24/1990 KLL
REVISION G 59481 02/28/1992 KLL
REVISION H 64590 12/01/1992 KLL
REVISION I 65842 08/17/1993 KLL
REVISION J 72567 08/30/1996 KLL
REVISION K 80755 08/23/2000 KLL