

DANDY DIGGER & SUPPLY, INC.

BORING EQUIPMENT AND ETC.

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December 20, 2004

National Highway Traffic Safety Administration
Mr. David Coleman, Administrator
ATTN: VIN Coordinator
400 Seventh Street S. W., Room 6109
Washington, DC 20590

Gentlemen:

I am enclosing the new VIN Check Digit Calculation Sheets for the trailers that we manufacture. All of our 2004 trailers will be numbered using these formulas.

Our number series will start over for the 2004 year. If you have any questions, please contact me.

Thank you for your assistance in this matter.

Sincerely,



Shery L. Jones
Office Manager

Enclosures (3)

Short Tandem Axle Trailers

CHECK DIGIT CALCULATIONS

CHECK DIGIT

2005 Year

Starting * 00

SUM
OF
PRODUCTS

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ACTUAL VIN	1	0	9	T	0	1	7	2	5	C	1	5	5				
CONVERTED VALUES from TABLE A (below)	1	4	9	3	0	1	7	2	5	3	1	5	5				
MULTIPLIER (X)	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	
PRODUCT (Value x Multiplier)	8	28	54	15	0	3	14	20	45	34	7	30	35				

Starting + C

= SUM OF PRODUCTS

DIVIDED BY	11	SUM OF PRODUCTS	=	WHOLE NUMBER	.	DECIMAL	↔
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ALPHABETIC TO NUMERIC CONVERSION VALUES

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

TABLE A

IF DECIMAL IS	CHECK SHOOT	IF DECIMAL IS	CHECK SHOOT
09	.99	= 1	.54 .64 = 6
48	.16	= 2	.63 .63 = 7
27	.27	= 3	.72 .72 = 8
36	.34	= 4	.81 .81 = 9
45	.46	= 5	.90 .90 = X
		.100	.00 = 0

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NOTE: Numerical characters from actual VIN are used in check digit calculation. Alphabetical characters are converted to numerical, according to TABLE A values.

EXAMPLE

ABC Trailers Inc. builds a flat bed standard series trailer with a 16 foot bed length on two axles at a plant in Cleveland, Ohio. What is the VIN coding for this trailer?

Since ABC manufactures less than 500 units per year, SAE assigned ABC a six digit number as follows 1A9/347 (1A9 goes in columns 1-3 and 347 goes in columns 12-14). ABC has elected to code body type in column 4, series in column 5, length in columns 6 and 7 and number of axles in column 8. (The characters utilized and their placement are determined by the manufacturer, but must include all required attributes for vehicle type.) ABC's coding for vehicle attributes are Type—F = flatbed, U = utility, Series/body type—S = standard, P = special, Length—actual overall bed length in feet (08, 12, 16, etc.) and number of axles—1 = single, 2 = tandem, etc. The letter F designates the 1985 model year and ABC uses the letter C for the location of their only plant, in Cleveland.

CHECK DIGIT

Since the check digit calculation for ABC Trailers resulted in a decimal value of .45, Table B shows that the check digit is 5. The value 5, placed in position 9 of the actual VIN, completes the 17 digit VIN requirements.

wingle wile wiler

2005 Year
Starting "cost"

CHECK DIGIT CALCULATIONS

-CHECK DIGIT

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ACTUAL VIN	1	D	9	T	0	1	6	1	5	C	1	5	5				
CONVERTED VALUES from TABLE A (below)	1	4	9	3	0	1	6	1	5	3	1	5	5				
MULTIPLIER (X)	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
PRODUCT (Value * multiplier)	8	38	54	15	0	3	12	10	45	24	7	30	25				

	SUM OF PRODUCTS	=	WHOLE NUMBER	DECIMAL	
DIVIDED BY	11				

ALPHABETIC TO NUMERIC CONVERSION VALUES

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

TABLE A

IF DECIMAL IS	CHECK DRAFT	IF DECIMAL IS	CHECK DRAFT
.09	= 1	.54	= 6
.48	= 2	.63	= 7
.27	= 3	.72	= 8
.36	= 4	.81	= 9
.75	= 5	.90	= X
		.00	= 0

TABLE I

NOTE: Numerical characters from actual VIN are used in check digit calculation. Alphabetical characters are converted to numerical, according to TABLE A values.

EXAMPLE

ABC Trailers Inc. builds a flat bed standard series trailer with a 16 foot bed length on two axles at a plant in Cleveland, Ohio. What is the VIN coding for this trailer?

Since ABC manufactures less than 500 units per year, SAE assigned ABC a six digit number as follows: 1A9/347 (1A9 goes in columns 1-3 and 347 goes in columns 12-14) ABC has elected to code body type in column 4, series in column 5, length in columns 6 and 7 and number of axles in column 8. (The characters utilized and their placement are determined by the manufacturer, but must include all required attributes for vehicle type) ABC's coding for vehicle attributes are: Type—F = flatbed, U = utility, Series/body type—S = standard, P = special, Length—actual overall bed length in feet (08, 12, 16, etc.) and number of axles—1 = single, 2 = tandem, etc. The letter F designates the 1985 model year and ABC uses the letter C for the location of their only plant, in Cleveland.

CHECK DIGIT

Since the check digit calculation for ABC Traders resulted in a decimal value of .45, Table B shows that the check digit is 5. The value 5, placed in position 8 of the actual VIN, completes the 17 digit VIN requirements.

Long tandem Axle trailer

CHECK DIGIT CALCULATIONS

2005 year

Starting # 001

CHECK DIGIT

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ACTUAL VIN	1	D	9	T	0	2	3	2	1	5	C	1	5	5			
CONVERTED VALUES from TABLE A (00000)	1	4	9	3	0	2	3	2	1	5	3	1	5	5			
MULTIPLIER (X)	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
PRODUCT (Value x multiplier)	8	28	54	15	0	6	6	20	0	45	24	7	3	25			=

SUM
OF
PRODUCTS

$$\frac{\boxed{\text{SUM OF PRODUCTS}}}{\text{DIVIDED BY } 11} = \boxed{\text{WHOLE NUMBER}} . \boxed{\text{DECIMAL}}$$

ALPHABETIC TO NUMERIC CONVERSION VALUES

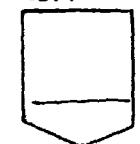
A - 1	G - 7	N - 5	V - 9
B - 2	H - 8	P - 7	W - 9
C - 3	J - 1	R - 9	X - 7
D - 4	K - 2	S - 2	Y - 8
E - 5	L - 3	T - 3	Z - 9
F - 6	M - 4	U - 4	

TABLE A

IF CHECK DECIMAL DIGIT IS 10	IF CHECK DECIMAL DIGIT IS 10
09 .99	= 1 .54 .64 = 6
18 .18	= 2 .63 .63 = 7
27 .27	= 3 .72 .72 = 8
36 .36	= 4 .81 .81 = 9
45 .45	= 5 .90 .90 = X
100 .00	= 0

TABLE B

NOTE: Numerical characters from actual VIN are used in check digit calculation. Alphabetical characters are converted to numerical, according to TABLE A values

Cert #


EXAMPLE

ABC Trailers Inc. builds a flat bed standard series trailer with a 16 foot bed length on two axles at a plant in Cleveland, Ohio. What is the VIN coding for this trailer?

Since ABC manufactures less than 500 units per year, SAE assigned ABC a six digit number as follows 1A9/347 (1A9 goes in columns 1-3 and 347 goes in columns 12-14). ABC has elected to code body type in column 4, series in column 5, length in columns 6 and 7 and number of axles in column 8. (The characters utilized and their placement are determined by the manufacturer, but must include all required attributes for vehicle type). ABC's coding for vehicle attributes are Type—F = flatbed, U = utility, Series/body type—S = standard, P = special, Length—actual overall bed length in feet (08, 12, 16, etc) and number of axles—1 = single, 2 = tandem, etc. The letter F designates the 1985 model year and ABC uses the letter C for the location of their only plant, in Cleveland.

CHECK DIGIT

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ACTUAL VIN	1	A	9	F	S	1	6	2	5	F	C	3	4	7	0	0	1
CONVERTED VALUES from TABLE A	1	1	9	6	2	1	6	2	0	6	3	3	4	7	0	0	1
MULTIPLIER (X)	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
PRODUCT (Value x multiplier)	8	7	54	30	8	3	12	20	0	54	24	21	24	35	0	0	2

SUM
OF
PRODUCTS

$$\frac{\boxed{302}}{\text{DIVIDED BY } 11} = \boxed{27} . \boxed{45}$$

Since the check digit calculation for ABC Trailers resulted in a decimal value of .45, Table B shows that the check digit is 5. The value 5, placed in position 9 of the actual VIN, completes the 17 digit VIN requirements.