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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 an 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,

Sheryl L. Jones
Office Manager

Enclosures (3)

Short Tandem Axle Trailer

CHECK DIGIT CALCULATIONS

CHECK DIGIT — 2005 Year — Starting #001

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
ACTUAL VIN	1	D	9	T	C	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	2	
PRODUCT (Value x multiplier)	8	28	54	15	0	3	14	20		45	24	7	30	25				= [ ] SUM OF PRODUCTS

[ ] SUM OF PRODUCTS ÷ DIVIDED BY 11 = WHOLE NUMBER [ ] . DECIMAL [ ] ⟺

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

TABLE B

Cert #

ALPHABETIC TO NUMERIC CONVERSION VALUES

A = 1	G = 7	N = 5	V = 5
B = 2	H = 8	P = 7	W = 6
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

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

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	= 302 SUM OF PRODUCTS

. 302 SUM OF PRODUCTS ÷ DIVIDED BY 11 = WHOLE NUMBER 27 . DECIMAL 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.

2005 Year
Starting "001

CHECK DIGIT CALCULATIONS

CHECK DIGIT

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
CHARACTER																		
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 x multiplier)	8	28	54	15	0	3	12	10		45	24	7	30	25				= ____ SUM OF PRODUCTS

____ SUM OF PRODUCTS / DIVIDED BY 11 = WHOLE NUMBER ____ . DECIMAL ____ ⟺

ALPHABETIC TO NUMERIC CONVERSION VALUES

A = 1	G = 7	N = 5	V = 5
B = 2	H = 8	P = 7	W = 6
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

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

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

TABLE B

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

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
CHARACTER																		
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	= 302 SUM OF PRODUCTS

. 302 SUM OF PRODUCTS / DIVIDED BY 11 = WHOLE NUMBER 27 . DECIMAL 45

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

Long Tandem Axle Trailer

CHECK DIGIT CALCULATIONS

2005 Year
Starting #001

CHECK DIGIT

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
CHARACTER																		
ACTUAL VIN	1	D	9	T	0	2	3	2		5	C	1	5	5				
CONVERTED VALUES from TABLE A (below)	1	4	9	3	0	2	3	2		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		45	24	7	30	25				= [ ] SUM OF PRODUCTS

[ ] SUM OF PRODUCTS ÷ DIVIDED BY 11 = WHOLE NUMBER [ ] . DECIMAL [ ]

ALPHABETIC TO NUMERIC CONVERSION VALUES

A = 1	G = 7	N = 5	V = 5
B = 2	H = 8	P = 7	W = 6
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

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

IF DECIMAL IS		CHECK DIGIT IS	IF DECIMAL IS		CHECK DIGIT IS
.09	[.09]	= 1	.54	[.54]	= 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
			.00	[.00]	= 0

TABLE B

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: 1A9347 (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

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
CHARACTER																		
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	= 302 SUM OF PRODUCTS

302 SUM OF PRODUCTS ÷ DIVIDED BY 11 = WHOLE NUMBER 27 . DECIMAL 45

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