

01-022-N11B-10540

4pgs.

**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

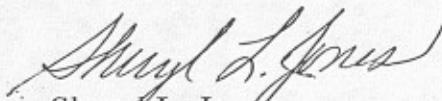
Gentlemen:

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,



Sheryl L. Jones  
Office Manager

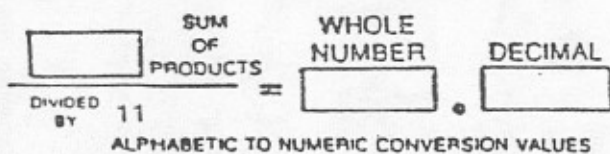
Enclosures (3)

# CHECK DIGIT CALCULATIONS

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	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	2
PRODUCT (Value x multiplier)	8	28	54	15	0	3	14	20		45	24	7	30	25			

=          SUM OF PRODUCTS



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-9
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	.99	1	.57	.84	6
18	.18	2	.63	.82	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 axes 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 axes 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 axes—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

SUM OF PRODUCTS = 302 WHOLE NUMBER . 45 DECIMAL

Divided by 11

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

	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 =  WHOLE NUMBER .  DECIMAL

DIVIDED BY 11

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-9
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	.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
	.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 axes 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 axes 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 axes—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.

	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

=  SUM OF PRODUCTS

SUM OF PRODUCTS =  WHOLE NUMBER .  DECIMAL

DIVIDED BY 11

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.

# CHECK DIGIT CALCULATIONS

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	0	2	3	2	CHECK DIGIT								
CONVERTED VALUES from TABLE A (below)	1	4	9	3	0	2	3	2									
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									
	= <input type="text" value=""/>																

SUM OF PRODUCTS =  **WHOLE NUMBER** .  **DECIMAL**

DIVIDED BY 11 =

ALPHABETIC TO NUMERIC CONVERSION VALUES

A-1	G-7	N-5	V-4
B-2	H-8	P-7	W-5
C-3	J-1	R-9	X-7
D-4	K-2	S-2	Y-9
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	.99	1	.54	.64	= 6
18	.18	2	.63	.83	= 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 axes 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 axes 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 axes—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.

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	CHECK DIGIT								
CONVERTED VALUES from TABLE A	1	1	9	6	2	1	6	2									
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									
	= <input type="text" value="302"/>																

SUM OF PRODUCTS =  **WHOLE NUMBER** .  **DECIMAL**

DIVIDED BY 11 =

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.