

07-21-94

565  
B

QUALITY DISCOUNT TRAILERS  
22223 N. 23rd AVENUE  
PHOENIX, AZ 85027  
582-1807 582-3497

ORIGINAL

01-22-N11B-5568

April 25, 1994



National Highway Traffic Safety Administration  
ATTN: VIN Coordinator  
NRM-15, Room 5307A  
400 7th Street  
Washington, D.C. 20590

3P

To Whom It May Concern:

I am writing to give my VIN scheme in order to start the manufacturing of our trailers.

1 Z 9 F S 1 6 2 8 R P 0 0 9 0 0 1 ✓

Our first three characters that were assigned to us are 1Z9 by SAE. The fourth character designates that we are building flatbed type trailers, the fifth meaning a standard trailer, the sixth and seventh character is our length of 16', two axles represents the 2 in the eight digit, the ninth is our check digit, the tenth being an R is the year the trailer was built, the P in the eleventh digit signifies that our plant is in Phoenix, AZ., twelve, thirteen and fourteen were assigned to us by SAE as 009, and the fifteenth, sixteenth, and seventeenth which shows 001 would be the first trailer we have manufactured.

If you have any questions regarding our layout of this VIN, please call us at (602) 582-1807 or (602) 618-0751.

Thank you,

Quality Discount Trailers

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# 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	Z	9	F	S	1	6	2	8	R	P	0	0	9	0	0	1
CONVERTED VALUES. from TABLE A (below)	1	9	9	6	2	1	6	2		9	7	0	0	9	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	63	54	30	8	3	12	20	0	81	56	0	0	45	0	0	2

= **382** SUM OF PRODUCTS

SUM OF PRODUCTS = **382**

DIVIDED BY 11 = **34** . **72**

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 = <b>8</b>	
.36 = 4		.81 = 9	
.45 = 5		.90 = X	
		.00 = 0	

TABLE B

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**

DIVIDED BY 11 = **27** . **45**

WHOLE NUMBER      DECIMAL

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.

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