

B 3/12/86  
*[Handwritten signature]*

# Art's Portable Welding

3446-6th St. Ceres, Ga. 95307 (209) 538-3554

## ORIGINAL

March 5, 1986

# 01-22-N11B-2160

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

Attn: VIN Coordinator:

We are applying for a manufacturers and Dealers License and I am submitting a VIN I constructed according to the specifics of the vehicle type and in accordance with the contents requirements of Part 565 of the information packet I received. This VIN is for a trailer: 1A9FP2027GC125001

The coding for this VIN is as follows:

1A9/125	-----	Society of Automotive Engineers
F	-----	Flatbed
P	-----	Special, tiltbed
20	-----	Length in feet
2	-----	number of axles
7	-----	check digit
G	-----	year constructed 1986
C	-----	Ceres, place of construction
001	-----	starting sequence

Please process this number as soon as possible as this is very important to our business.

Very truly yours,

*Sharline Doyle*

Sharline Doyle, Owner

# 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	A	9	F	P	2	0	2	7	G	C	1	2	5	0	0	1
CONVERTED VALUES from TABLE A (below)	1	1	9	6	7	2	0	2	0	7	3	1	2	5	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	28	6	0	20	0	63	24	7	12	10	0	0	2

= 371 **SUM OF PRODUCTS**

$$\frac{\boxed{371}}{\text{DIVIDED BY } 11} = \boxed{24} \text{ WHOLE NUMBER} \cdot \boxed{64} \text{ DECIMAL} \left( \Rightarrow 7 \right)$$

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

### 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**

$$\frac{\boxed{302}}{\text{DIVIDED BY } 11} = \boxed{27} \text{ WHOLE NUMBER} \cdot \boxed{45} \text{ DECIMAL}$$

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.