Rx 7/30/90 pdg

01-22-N11B-3742

BUILT-RITE TRAILER VIN NUMBER

ORIGINAL

1 - 1
2 - B } W.M.I
3 - 9
4 - B BOX TRAILER
5 - U UTILITY
6 - 0 } 8FT LONG
7 - 8
8 - 1 ONE AXLE
9 - 7 DECIMAL .63 = 7
10 - L 1990
11 - B BOVEY
12 - 2
13 - 4 } UNDER 500 PER YEAR (WMI)
14 - 1
15 - 0
16 - 0 } NUMBER ONE TRAILER
17 - 1

2 pg

VIN NUMBER

1B9B40817LB241001

BUILT-RITE TRAILERS
612 2ND ST
BOVEY MINN 55709
218-245-3627
VA & Fremine owner

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	B	9	6	U	0	8	1	7	L	B	2	4	1	0	0	1
CONVERTED VALUES from TABLE A (below)	1	2	9	2	4	0	8	1	0	3	2	2	4	1	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	14	54	10	16	0	16	10	0	27	16	14	24	5	0	0	2

= 216 SUM OF PRODUCTS

216 SUM OF PRODUCTS / DIVIDED BY 11 = WHOLE NUMBER 19 . DECIMAL 63 ⟺

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

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

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

	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 is 5 The value 5, placed in position 9 of the actual VIN, completes the 17 digit VIN requirements