



QUALITY TRAILERS, INC.

We Custom Build To Suit Your Needs

R.R. #2 • Gretna, NE 68028

402/332-4535

B 8/22/86 rdy
ORIGINAL

"BUILT TOUGH TO TAKE IT"

27, June 1986

01-22-NIB-2370

Patti Gardner
WMI Coordinator
NHTSA
Room 5307
400 Seventh Street SW
Washington D.C. 20590

19 pages

Patti:

I wish to make application for the use of a Vehicle Identification Number (VIN), numbering system by my company. I received a letter from your agent, SAE concerning this matter on 24, March 1986, confirming the first three digits and the third, fourth and fifth digits of the vehicle indicator section.

I have enclosed the following items:

- (1) A copy of the original letter from SAE.
- (2) A copy of the directions to formulate the VIN system.
- (3) Table A, which explains any possible coding that my company will use for each place of the VIN system.
- (4) And 3 examples of the VIN in use, as well as attached supporting computations to derive the check digit.

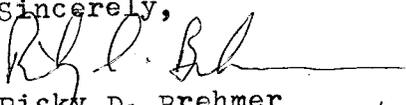
My company will not be manufacturing more than 500 units a year for some time, and SAE based their decisions for the numbers on that fact.

The examples that I have enclosed have the supporting calculations for the check digit attached to each example.

After reviewing the enclosed material, please let me know what you have decided at 402-332-4535.

Patti, Thank you for your patience and consideration.

Sincerely,


Ricky D. Brehmer

RDB:vu
Enclosures
cc: Dean L. Brehmer

THANKS!
AGAIN!



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"BUILT TOUGH TO TAKE IT"

TABLE A

1)
 C)
 9)

ASSIGNED
 AS PER
 LETTER

-- TYPE -- A = Auto Tote Trailer
 B = Boat Trailer
 C = Flatbed with a fixed railing
 D = Flatbed with beaver tail
 E = Enclosed Trailer
 F = Flatbed Trailer
 G = Flatbed with fixed sides (box)
 H = Horse Trailer

-- SERIES -- E = Equipment Trailer
 S = Special Trailer
 U = Utility Trailer

--
 -- LENGTH IN FEET (Example - 20 ft. 2 0)

-- NUMBER OF AXLES, 1, 2, 3, 4, etc.

-- CHECK DIGIT

-- YEAR OF MANUFACTURE (Example 1986 = G)

-- PLANT LOCATION - Only one location, designated "G" for Gretna.

2)
 9)
 0)

ASSIGNED
 AS PER
 LETTER

0)
 0)
 1)

NUMBERING SEQUENCE
 TO START ON
 JANUARY 1, OF EACH YEAR



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"BUILT TOUGH TO TAKE IT"

EXAMPLE I

1)
) ASSIGNED
C) AS PER LETTER
) - COPY ENCLOSED -
9)

F = FLATBED (TYPE)

E = EQUIPMENT TRAILER (SERIES)

2)
) LENGTH (OVERALL)
0)

2 NUMBER OF AXLES

7 CHECK DIGIT (SEE ATTACHED SCHEDULE)

G MODEL YEAR (TABLE II)

G PLANT LOCATION (GRETNA)

2)
) ASSIGNED
9) AS PER LETTER
) - COPY ENCLOSED -
0)

0)
)
0) MANUFACTURE SEQUENCE
) STARTING AT 001 EACH NEW YEAR
1)



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"BUILT TOUGH TO TAKE IT"

ATTACHED SCHEDULE FOR EXAMPLE I

VIN	=	1	C	9	F	E	2	0	2	7	G	G	2	9	0	0	0	1
VALUE	=	1	3	9	6	5	2	0	2	0	7	7	2	9	0	0	0	1
FACTOR	=	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2

$$\Sigma = 8 \ 21 \ 54 \ 30 \ 20 \ 6 \ 0 \ 20 \ 0 \ 63 \ 56 \ 14 \ 54 \ 0 \ 0 \ 0 \ 2 = 348$$

$$\Sigma = 348/11 = 31.63 \quad .63 = \boxed{7} \text{ -- check digit}$$



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"BUILT TOUGH TO TAKE IT"

EXAMPLE 2

1)
C) ASSIGNED
9) AS PER LETTER
A = - COPY ENCLOSED -
S = AUTO TOTE TRAILER (TYPE)
O = SPECIAL TRAILER (SERIES)
9)
1) 9 FT. LENGTH (OVERALL)
1) ONE AXLE (NUMBER OF AXLES)
5) CHECK DIGIT (SEE ATTACHED SCHEDULE)
G) MODEL YEAR - 1986
G) PLANT LOCATION - GRETNA, NE.
2)
9) ASSIGNED
0) AS PER LETTER
0) - COPY ENCLOSED -
0)
0)
1) MANUFACTURE SEQUENTIAL NUMBERING
STARTING EACH JANUARY 1



"BUILT TOUGH TO TAKE IT"

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ATTACHED SCHEDULE FOR EXAMPLE 2

VIN	=	1	C	9	A	S	0	9	1	5	G	G	2	9	0	0	0	1
VALUE	=	1	3	9	1	2	0	9	1	0	7	7	2	9	0	0	0	1
FACTOR	=	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2

$$\Sigma = 8 \ 21 \ 54 \ 5 \ 8 \ 0 \ 18 \ 10 \ 0 \ 63 \ 56 \ 14 \ 54 \ 0 \ 0 \ 0 \ 2 = 313$$

$$\Sigma = 313/11 = 28.45 = 5 - - check digit$$



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"BUILT TOUGH TO TAKE IT"

EXAMPLE 3

1)
C) ASSIGNED
9) AS PER LETTER
- COPY ENCLOSED -

D = FLATBED WITH A BEAVERTAIL (TYPE)

E = EQUIPMENT TRAILER (SERIES)

2)
3) 23 FT. - LENGTH IN FEET (OVERALL)

3 THREE AXLES (NUMBER OF AXLES)

2 CHECK DIGIT

G YEAR OF MANUFACTURE 1986 - G

G PLANT LOCATION - GRETNA, NE.

2)
9) ASSIGNED
0) AS PER LETTER
- COPY ENCLOSED -

0)
0) MANUFACTURE SEQUENTIAL NUMBERING
STARTING EACH JANUARY 1

1)



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ATTACHED SCHEDULE FOR EXAMPLE 3

VIN = 1 C 9 D E 2 3 3 2 G G 2 9 0 0 0 1

VALUE = 1 3 9 4 5 2 3 3 0 7 7 2 9 0 0 0 1

FACTOR = 8 7 6 5 4 3 2 10 0 9 8 7 6 5 4 3 2

Σ = 8 21 43 20 20 6 6 30 0 63 56 14 54 0 0 0 2 = 354

Σ = 354/11 = 32.18 = .18 = 2 check digit

400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15096-0001 U.S.A.
(412) 776-4841 FAX NO. (412) 776-5760

CABLE ADDRESS: SOCAUTOENG, PA.
TELEX NO. 866.355

March 24, 1986

Mr. Clark Reinert
Quality Trailers
R.R. 2
Gretna, NB 68028

Dear Mr. Reinert:

This letter confirms our telephone conversation of March 20, 1986 regarding the assignment of a World Manufacturer (Maker) Identifier (WMI) Code. As the agent of the NHTSA for the assignment of manufacturer identifiers pursuant to CFR 49 Part 565.5C Vehicle Identification Number (VIN), we hereby confirm the following code:

Quality Trailers
R.R. 2
Gretna, NB 68028
United States

1 C 9

with the 3rd, 4th, and 5th
characters of the Vehicle
Indicator Section to be

2 9 0

Reserved/Utility & Light Equipment

Sincerely,



Debbie Bisch
WMI Coordinator

/db

Enclosure

cc: A. Burgett
B. P. Hicke

MOTOR VEHICLE SAFETY STANDARD NO. 115 VEHICLE IDENTIFICATION NUMBER - PASSENGER CARS, MULTIPURPOSE PASSENGER VEHICLES, TRUCKS, BUSES, TRAILERS (INCLUDING TRAILER KITS), INCOMPLETE VEHICLES AND MOTORCYCLES.

EFFECTIVE - JUNE 20, 1983

48 FR 22571-25/19/83 (Issued 5/13)

A- 50 FR 4221-22 1/30/85 (Issued on 1/22/85)

S1. Purpose and Scope.

This standard specifies general physical requirements for a vehicle identification number (VIN) and its installation to simplify vehicle information retrieval and to reduce the incidence of accidents by increasing the accuracy and efficiency of vehicle recall campaigns. Vehicles imported into the United States under 19 CFR 12.80(b)(1)(iii) are exempt from the requirements of sections 4.1, 4.2, and 4.7 of this standard.

S2. Application.

R- This standard applies to passenger cars, multipurpose passenger vehicles, trucks, buses, trailers (including trailer kits), incomplete vehicles and motorcycles. < Vehicles imported into the United States under 19 CFR 12.80 (b) (1) (iii), other than by a corporation which was responsible for the assembly of that vehicle or a subsidiary of such a corporation, are exempt from the requirements of S4.2, S4.3, and S4.7 of this standard. >

S3. Definitions.

"Check digit" means a single number or the letter X used to verify the accuracy of the transcription of the vehicle identification number.

"Incomplete vehicle" means an assemblage consisting, as a minimum, of frame and chassis structure, power train, steering system, suspension system, and braking system, to the extent that those systems are to be part of the completed vehicle, that requires further manufacturing operations, other than the addition of readily attachable components,

such as mirrors or tire and rim assemblies, or minor finishing operations such as painting, to become a completed vehicle

"Trailer kit" means a trailer which is fabricated and delivered in complete but unassembled form and which is designed to be assembled without special machinery or tools.

"Vehicle identification number" means a series of arabic numbers and roman letters which is assigned to a motor vehicle for identification purposes.

S4 Requirements

S4.1 Each vehicle manufactured in one stage shall have a VIN that is assigned by the manufacturer. Each vehicle manufactured in more than one stage shall have a VIN assigned by the incomplete vehicle manufacturer. Vehicle alterers, as specified in 49 CFR 567.7, shall utilize the VIN assigned by the original manufacturer of the vehicle.

S4.2 Each VIN shall consist of seventeen (17) characters.

S4.3 A check digit shall be part of each VIN. The check digit shall appear in position nine (9) of the VIN on the vehicle and on any transfer documents containing the VIN and prepared by the manufacturer to be given to the first owner for purposes other than resale.

S4.4 The VIN's of any two vehicles manufactured within a 30-year period shall not be identical.

S4.5 The VIN of each vehicle shall appear clearly and indelibly upon either a part of the

A- New Material Added

R- Revised

MOTOR VEHICLE SAFETY STANDARD NO. 115 VEHICLE IDENTIFICATION NUMBER - PASSENGER CARS, MULTIPURPOSE PASSENGER VEHICLES, TRUCKS, BUSES, TRAILERS (INCLUDING TRAILER KITS), INCOMPLETE VEHICLES AND MOTORCYCLES.

vehicle other than the glazing that is not designed to be removed except for repair or upon a separate plate or label which is permanently affixed to such a part.

S4.8 The type face utilized for each VIN shall consist of capital, sanserif characters.

S4.6 The VIN for passenger cars, multipurpose passenger vehicles, and trucks of 10,000 pounds or less GVWR shall be located inside the passenger compartment. It shall be readable, without moving any part of the vehicle, through the vehicle glazing under daylight lighting conditions by an observer having 20/20 vision (Snellen) whose eye-point is located outside the vehicle adjacent to the left windshield pillar. Each character in the VIN subject to this paragraph shall have a minimum height of 4 mm.

S4.7 Each character in each VIN shall be one of the Arabic or Roman letters set forth in Table 1.

TABLE 1

Numbers:	1234567890.....
Letters:	ABCDEFGHIJKLMNPRSTUVWXYZ.....

All spaces provided for in the VIN must be occupied by a character specified in Table 1.

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MOTOR VEHICLE SAFETY STANDARD NO. 115 VEHICLE IDENTIFICATION NUMBER – PASSENGER CARS, MULTIPURPOSE PASSENGER VEHICLES, TRUCKS, BUSES, TRAILERS, INCOMPLETE VEHICLES AND MOTORCYCLES.

EFFECTIVE – SEPTEMBER 1, 1980 (through June 19, 1983)

44 FR 17489-500 3/22/79 (Issued 3/15)
45 FR 12255-8 2/25/80 (Issued 2/19)

S1. Purpose and Scope. This standard specifies requirements for a vehicle identification system to simplify vehicle information retrieval and to reduce the incidence of accidents by increasing the accuracy and efficiency of vehicle defect recall campaigns.

S2. Application. This standard applies to passenger cars, multipurpose passenger vehicles, trucks, buses, trailers, incomplete vehicles and motorcycles.

S3. Definitions. "Body type" means the general configuration or shape of a vehicle distinguished by such characteristics as the number of doors or windows, cargo-carrying features and the roofline (e.g., sedan, fastback, hatchback).

"Check Digit" means a single number or the letter X used to verify the accuracy of the transcription of the vehicle identification number.

"Engine Type" means a power source with defined characteristics such as fuel utilized, number of cylinders, displacement, and net brake horsepower. The specific manufacturer and make shall be represented if the engine powers a passenger car, a multipurpose passenger vehicle with a gross vehicle weight rating of 10,000 pounds or less, or a truck with a gross vehicle weight rating of 10,000 pounds or less.

"Incomplete vehicle" means an assemblage consisting, as a minimum, of frame and chassis structure, power train, steering system, suspension system, and braking system, to the extent that those systems are to be part of the completed vehicle, that requires further manufacturing operation, other than the

addition of readily attachable components, such as mirrors or tire and rim assemblies, or minor finishing operations such as painting, to become a completed vehicle.

"Line" means a name which a manufacturer applies to a family of vehicles within a make which have a degree of commonality in construction, such as body, chassis or cab type.

"Make" means a name which a manufacturer applies to a group of vehicles or engines.

"Model" means a name which a manufacturer applies to a family of vehicles of the same type, make, line, series, and body type.

"Model Year" means the year used to designate a discrete vehicle model irrespective of the calendar year in which the vehicle was actually produced, so long as the actual period is less than 2 years.

"Plant of manufacture" means the plant where the manufacturer affixes the VIN.

"Series" means a name which a manufacturer applies to a subdivision of a "line" denoting price, size or weight identification, and which is utilized by the manufacturer for marketing purposes.

"Type" means a class of vehicle distinguished by common traits, including design and purpose. Passenger cars, multipurpose passenger vehicles, trucks, buses, trailers, incomplete vehicles, and motorcycles are separate types.

A- New Material Added

R- Revised

MOTOR VEHICLE SAFETY STANDARD NO. 115 VEHICLE IDENTIFICATION NUMBER - PASSENGER CARS, MULTIPURPOSE PASSENGER VEHICLES, TRUCKS, BUSES, TRAILERS, INCOMPLETE VEHICLES AND MOTORCYCLES.

"Vehicle identification number" means a series of arabic numbers and roman letters which is assigned to a motor vehicle for identification purposes.

54. Requirements.

54.1 Each vehicle manufactured in one stage shall have a vehicle identification number (VIN) that is assigned by the manufacturer and a check digit which meet the requirements of this standard. Each vehicle manufactured in more than one state shall have a VIN and check digit assigned by the incomplete vehicle manufacturer.

54.2 The vehicle identification numbers of any two vehicles manufactured within a 30 year period shall not be identical.

54.3 The vehicle identification number and check digit of each vehicle shall appear clearly and indelibly upon either a part of the vehicle other than the glazing that is not designed to be removed except for repair or upon a separate plate or label which is permanently affixed to such a part.

54.3.1 The type face utilized for the vehicle identification number and check digit shall consist of capital, sans serif characters. Each character in the VIN required by 54.4 shall have a minimum height of 4mm.

54.4 The vehicle identification number and check digit for passenger cars and trucks of 10,000 pounds or less GVWR shall be located inside the passenger compartment. They shall be readable, without moving any part of the vehicle, through the vehicle glazing under daylight lighting conditions by an observer having 20/20 vision (Snellen) whose eye-point is located outside the vehicle adjacent to the left windshield pillar.

54.5 *VIN basic content.* The VIN shall consist of three sections of characters and shall be grouped accordingly.

54.5.1 The first section shall consist of three characters which uniquely identify the manufacturer, make and type of the motor vehicle if its manufacturer produces 500 or more motor vehicles of its type annually. If the manufacturer produces less than 500 motor vehicles of its type annually, the first and second characters may be determined by the manufacturer, the third character shall be the number 9, and the manufacturer, make and type of the motor vehicle shall be identified in accordance with 54.5.3.3.

54.5.2 The second section shall consist of five characters which shall uniquely identify the attributes of the vehicle as specified in Table I. For passenger cars, multipurpose passenger vehicles with a gross vehicle weight rating of 10,000 pounds or less, and trucks with a gross vehicle weight rating of 10,000 pounds or less, the first and second characters shall be alphabetic and the third and fourth characters shall be numeric. The fifth character may be either alphabetic or numeric. The characters utilized and their placement within the section may be determined by the manufacturer, but the specified attributes must be decipherable with information supplied by the manufacturer under 56. In submitting data to the NHTSA relating to the gross vehicle weight rating, the following designations shall be utilized. No designations are specified for the VIN.

Class A: Not greater than 3,000 pounds.

Class B: 3,001-4,000 pounds.

Class C: 4,001-5,000 pounds.

Class D: 5,001-6,000 pounds.

Class E: 6,001-7,000 pounds.

Class F: 7,001-8,000 pounds.

Class G: 8,001-9,000 pounds.

Class H: 9,001-10,000 pounds.

Class 3: 10,001-14,000 pounds.

Class 4: 14,001-16,000 pounds.

Class 5: 16,001-19,500 pounds.

Class 6: 19,501-26,000 pounds.

Class 7: 26,001-33,000 pounds.

Class 8: 33,001 pounds and over.

MOTOR VEHICLE SAFETY STANDARD NO. 115 VEHICLE IDENTIFICATION NUMBER - PASSENGER CARS, MULTIPURPOSE PASSENGER VEHICLES, TRUCKS, BUSES, TRAILERS, INCOMPLETE VEHICLES AND MOTORCYCLES.

TABLE I - TYPE OF VEHICLE AND INFORMATION DECIPHERABLE

- Passenger car: Line, series, body type, engine type,¹ and restraint system type.
- Multipurpose passenger vehicle: Line, series, body type, engine type,¹ and gross vehicle weight rating.
- Truck: Model or line, series, chassis, cab type, engine type,¹ brake system and gross vehicle weight rating.
- Bus: Model or line, series body type, engine type,¹ and brake system.
- Trailer: Type of trailer, series, body type, length, and axle configuration.
- Motorcycle: Type of motorcycle, line, engine type,¹ and net brake horsepower.¹
- Incomplete vehicle: Model or line, series, cab type, engine type,¹ and brake system

¹Engine net brake horsepower encoded in the vehicle identification number shall differ by no more than 10 percent from the actual net brake horsepower, shall, in the case of a motorcycle with an actual net brake horsepower of 2 or less, not be more than 2; and shall, in the case of a motorcycle with an actual brake horsepower greater than 2, be greater than 2.

S4.5.3. The third section shall consist of eight characters, of which the fourth through the eighth shall be numeric for passenger cars, multipurpose passenger vehicles with a gross vehicle weight rating of 10,000 pounds or less, and trucks with a gross vehicle weight rating of 10,000 pounds or less, and the fifth through the eighth shall be numeric for all other vehicles.

S4.5.3.1. The first character of the third section shall represent the vehicle model year. The year shall be designated as indicated in Table II.

S4.5.3.2 The second character of the third section shall represent the plant of manufacture.

S4.5.3.3 The third through the eighth characters of the third section shall represent the number sequentially assigned by the manufacturer in the production process if the manufacturer produces 500 or more vehicles of its type annually. If the manufacturer produces less than 500 motor vehicles of its type annually, the third, fourth, and fifth characters of the third section, combined with the three characters of the first section, shall uniquely identify the manufacturer, make and type of the motor vehicle and the sixth, seventh, and eighth character of the third section shall represent the number sequentially assigned by the manufacturer in the production process.

S4.6 *Characters.* Each character used in a vehicle identification number shall be one of the arabic numbers or roman letters set fourth in Table III.

S5. *Check digit.*

S5.1 A check digit shall be provided with each vehicle identification number. The check digit shall immediately follow the fifth character of the second section and appear with the vehicle identification number on the vehicle and on any transfer documents containing the vehicle identification number and prepared by the manufacturer to be given to the first owner for purposes other than resale.

S5.2 The check digit is determined by carrying out the mathematical computation specified in S5.2.1 - S5.2.4.

S5.2.1 Assign to each number in the vehicle identification number its actual mathematical value and assign to each letter the value specified for it in Table IV.

S5.2.2 Multiply the assigned value for each character in the vehicle identification number by the weight factor specified for it in Table V. Multiply the check digit by 0.

MOTOR VEHICLE SAFETY STANDARD NO. 115 VEHICLE IDENTIFICATION NUMBER - PASSENGER CARS, MULTIPURPOSE PASSENGER VEHICLES, TRUCKS, BUSES, TRAILERS, INCOMPLETE VEHICLES AND MOTORCYCLES.

TABLE II

Year	Code
1980	A
1981	B
1982	C
1983	D
1984	E
1985	F
1986	G
1987	H
1988	J
1989	K
1990	L
1991	M
1992	N
1993	P
1994	R
1995	S
1996	T
1997	V
1998	W
1999	X
2000	Y
2001	1
2002	2
2003	3
2004	4
2005	5
2006	6
2007	7
2008	8
2009	9
2010	A
2011	B
2012	C

S5.2.2 Add the resulting products and divide the total by 11.

S5.2.4 The remainder is the check digit. If the remainder is 10, the check digit is X.

TABLE III

Numbers: 1234567890
Letters:

ABCDEFGHIJKLMNPRSTUVWXYZ

All spaces provided for in the vehicle identification number must be occupied by a character specified in Table III.

S6. Reporting Requirements.

S6.1 Manufacturers of motor vehicles subject to this standard shall submit, either directly or through an agent, the unique identifier for each make and type of vehicle it manufactures by February 24, 1980.

S6.2 Manufacturers which begin production of motor vehicles subsequent to September 1, 1979, shall submit, either directly or through an agent, the unique identifier for each make and type of vehicle it manufactures at least 60 days before affixing the first vehicle identification number. Manufacturers whose unique identifier appears in the third section of the vehicle identification number shall also submit the three characters of the first section which constitute a part of their identifier.

S6.3 Each manufacturer shall submit at least 60 days before affixing the first VIN which meets the requirements of this standard the information necessary to decipher the characters contained in its vehicle identification numbers. Any amendments to this information shall be submitted at least 60 days before affixing a vehicle identification number utilizing an amended coding.

S6.4 Information required to be submitted under this section shall be addressed to: Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, D.C. 20590, Attention VIN Coordinator.

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MOTOR VEHICLE SAFETY STANDARD NO. 115 VEHICLE IDENTIFICATION NUMBER - PASSENGER CARS, MULTIPURPOSE PASSENGER VEHICLES, TRUCKS, BUSES, TRAILERS (INCLUDING TRAILER KITS), INCOMPLETE VEHICLES AND MOTORCYCLES.

TABLE IV

A = 1	J = 1	T = 3
B = 2	K = 2	U = 4
C = 3	L = 3	V = 5
D = 4	M = 4	W = 6
E = 5	N = 5	X = 7
F = 6	P = 7	Y = 8
G = 7	R = 9	Z = 9
H = 8	S = 2	

TABLE V

Character and Weight Factor

1st	8	10th	9
2d	7	11th	8
3rd	6	12th	7
4th	5	13th	6
5th	4	14th	5
6th	3	15th	4
7th	2	16th	3
8th	10	17th	2
Check Digit (9th)	0		

A- New Material Added

R- Revised

MOTOR VEHICLE SAFETY STANDARD NO. 115 VEHICLE IDENTIFICATION NUMBER - PASSENGER CARS, MULTIPURPOSE PASSENGER VEHICLES, TRUCKS, BUSES, TRAILERS (INCLUDING TRAILER KITS), INCOMPLETE VEHICLES AND MOTORCYCLES.

Example:

Vehicle Identification Number

Character 1 G 4 A H 5 9 H 4 5 G 1 1 8 3 4 1

Assigned Value

1 7 4 1 8 5 9 8 4 5 7 1 1 8 3 4 1

Multiply by Weight factor

8 7 6 5 4 3 2 10 0 9 8 7 6 5 4 3 2

Add Products

8 + 49 + 24 + 5 + 32 + 15 + 18 + 80 + 0 45 + 56 + 7 + 6 + 40 + 12 + 12 + 2 = 411

Divide by 11

411/11 = 37 4/11

Check Digit

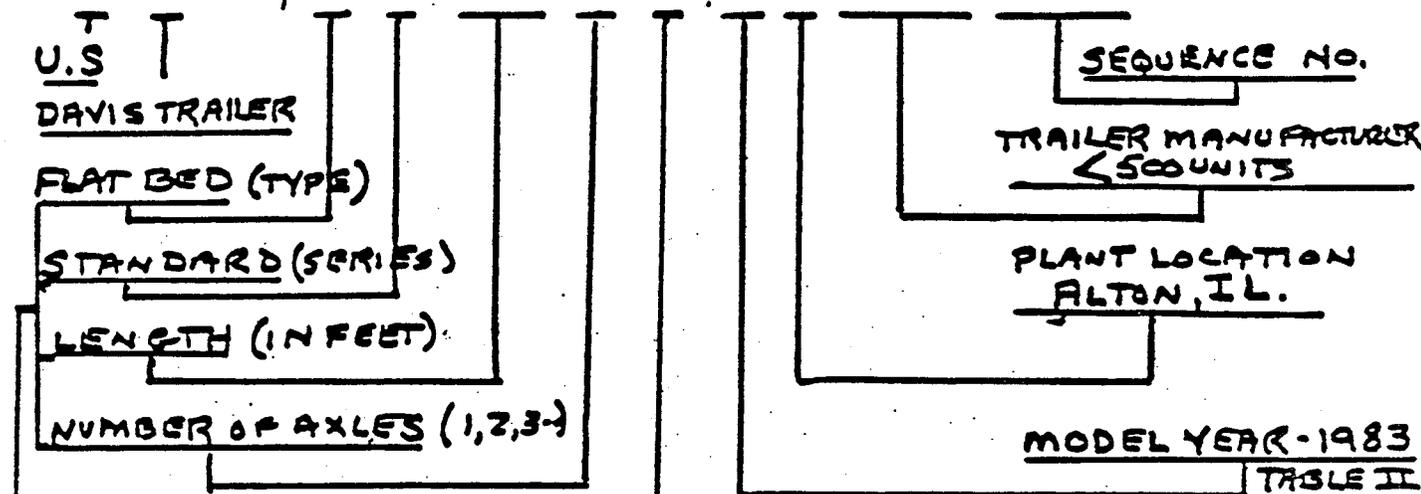
4 (compare to character in 9th position)

READ PARAGRAPHS S 4.5 THROUGH S 5.2.4

SAMPLE TRAILER VIN (STANDARD 115)

1ST SECTION | 2ND SECTION | 3RD SECTION
 REFER TO 3RD SECTION - WMI/SAE (ASSIGNED)
 LESS THAN 500 UNITS/YEAR

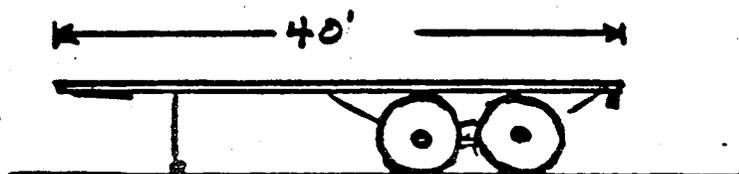
1 D 9 F S 4 0 2 ... D 1 0 6 1 0 0 1



CHECK DIGIT (PER S5)

Motor Homes

MANUFACTURERS OWN
 CODE TO DESCRIBE
 VEHICLE ATTRIBUTES



CHECK DIGIT CALCULATION:

VIN-1 D 9 F S 4 0 2 5 D 1 0 6 1 0 0 1 - VIN
 VALUE 1 4 9 6 2 4 0 2 4 1 0 6 1 0 0 1 - TABLE IV
 FACTOR 8x 7x 6x 5x 4x 3x 2x 10x 0 9x 8x 7x 6x 5x 4x 3x 2x - TABLE V

$8 + 28 + 54 + 30 + 8 + 12 + 0 + 20 + 0 + 36 + 8 + 0 + 36 + 5 + 0 + 0 + 2 = 247$

MULTIPLY VALUE BY FACTOR FOR EACH COLUMN AND ADD = TOTAL

$\div \text{BY } 11 = \frac{\text{TOTAL}}{11} = \frac{247}{11} = 22 \text{ R } 5$ (CHECK DIGIT 9TH POSITION)

WITH CALCULATOR

$\frac{247}{11} = 22.45 = 5$

FOR DECIMAL:

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

AUGUST BURGETT, WMI COORDINATOR
 (NHTSA) 202/426-2153
 366-5275

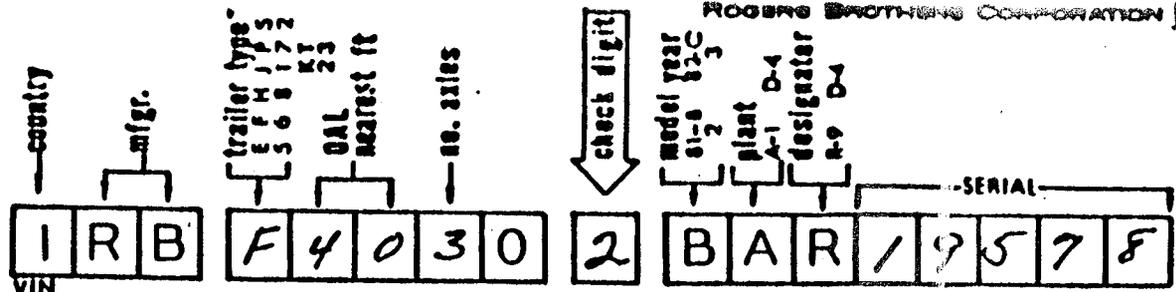
VIN CALCULATION

The Ultimate in Trailers

ROGERS BROTHERS CORPORATION



800 ORCHARD ST
MILBURN, PA. 19047
PH: (610) 708-6100



1	9	2	6	4	0	3	0		2	1	9	1	9	5	7	8
VALUES																

8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
MULTIPLIER																

8	63	12	30	16	0	6	0	0	18	8	63	6	45	20	21	16	=	332
---	----	----	----	----	---	---	---	---	----	---	----	---	----	----	----	----	---	-----

Add products →
Divide sum by 11 30 18 (decimal)

decimal - check digit

.09 _____ 1	.54 _____ 0
.18 _____ 2	.63 _____ 7
.27 _____ 3	.72 _____ 8
.36 _____ 4	.81 _____ 9
.45 _____ 5	.90 _____ 0
.54 _____ 6	.00 _____ 0

type

Drop frame	E-9	Tilt Bed	K-2
Flatbed	F-8	Wagon	T-3
Heavy Hauler	H-0		
Dolly	J-1		
Pole	P-7		
Special	S-2		

ROGERS

EXAMPLE

EXAMPLE 40' FLAT 3 AXLE