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**Designers/Manufacturers of TRANSPORTATION SYSTEMS**  
NATIONAL SALES OFFICE: 400 HACKNEY AVENUE WASHINGTON, NORTH CAROLINA 27889

6/28/84 EW

April 10, 1984

01-22-NIB-1560

*[Handwritten signature]*

Administrator  
National Highway Traffic Safety Administration  
400 Seventh Street, S.W.  
Washington, DC 20590

ORIGINAL

ATTENTION: VIN Coordinator

Dear Sir:

In compliance with §571.115 Standard No. 115; Vehicle Identification Number, we are hereby submitting to you two additional model designations for a new series of trailers we intend to manufacture. Please refer to the attached "VIN for Trailers" for complete details on our VIN format.

Both of the new model trailers are the pallet-loaded type with side opening compartments (bays) for the pallets. All bays are the same height. They are generally used for transporting beverages (soft drinks, beer, bottled water, etc.), but they can be used with most any type of palletized load.

The new models each have two axles, a fixed one at the rear and one mounted to a converter dolly at the front. The converter dolly is permanently attached to the trailer by a turntable.

The distinguishing characteristics of each model are:

- BTR - Bays covered by roll-up doors.
- BTH - Bays covered by hinged doors.

Sincerely yours,

*Julius P. Brauer*

Julius P. Brauer, P.E.  
Manager  
Sales Engineering

JPB/tgb

Enclosures

RECEIVED



VIN for trailers

Section I - Three character unique identifier

1HH (assigned to us by SAE)

Section II - Five character vehicle characteristics

- A. First three characters  
Trailer model - UTX, ØTX, MST, TRH, BTR, BTH
- B. Fourth character  
Trailer length - 1 for less than 30'  
2 for 30' to less than 35'  
3 for 35' to less than 40'  
4 for 40' to less than 45'  
5 for 45' to less than 50'
- C. Fifth character  
Axle configuration - 1 for single axle, 2 for two axles

Check digit - Goes between section II and section III. Will be described later.

Section III - Eight characters denoting model year, assembly plant and production order number.

- A. First character  
Model year coded as follows:

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

- B. Second character  
Plant of manufacture - E for HSE, M for HSM
- C. Third character  
Filler - Ø
- D. Fourth through eighth characters  
Production order number

Check digit is calculated from the above described sixteen characters by the following procedure:

1. Assign the following numerical values to any VIN character that is a letter. The number characters already in the VIN remain unchanged for calculation purposes:

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

2. Multiply each VIN digit (from step 1) by the following "weight factor." Note the check digit, the 9th character of the VIN, is not needed for steps 1 and 2 since any number multiplied by zero results in zero.

VIN Character	Weight Factor	VIN Character	Weight Factor
1st	8	9th	0
2nd	7	10th	9
3rd	6	11th	8
4th	5	12th	7
5th	4	13th	6
6th	3	14th	5
7th	2	15th	4
8th	10	16th	3
		17th	2

3. Add all the multiplication answers of step 2 together for a total sum.
4. Divide the total sum from step 3 by 11.
5. The final remainder value of the division from step 4 becomes the check digit. If the remainder is 10, the check digit is to be the letter X.

Example

S. N. 8ØT24653, a 3-TX-24, 43'-3 1/4" long, would have as its VIN:

1HHØTX421AMØ24653

Check digit calculation:

<u>VIN Character</u>	<u>Assigned Value</u>		<u>Weight Factor</u>		<u>Product</u>
1	1	X	8	=	8
H	8	X	7	=	56
H	8	X	6	=	48
Ø	Ø	X	5	=	Ø
T	2	X	4	=	8
X	7	X	3	=	21
4	4	X	2	=	8
2	2	X	1Ø	=	2Ø
?	?	X	Ø	=	Ø
A	1	X	9	=	9
M	4	X	8	=	32
Ø	Ø	X	7	=	Ø
2	2	X	6	=	12
4	4	X	5	=	20
6	6	X	4	=	24
5	5	X	3	=	15
3	3	X	2	=	6
Sum of Products				=	287

$287 \div 11 = 26$  with a remainder of 1.

Thus 1 is the check digit for this trailer.

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