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Designers/Manufacturers of TRANSPORTATION SYSTEMS
NATIONAL SALES OFFICE: 400 HACKNEY AVENUE, P.O. BOX 880, WASHINGTON, NC 27889-0880

01-22-N11B-3766

March 16, 1990

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

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RECEIVED
NH/SA DOCKET

ATTN: VIN COORDINATOR

Dear Sir:

In compliance with Part 565, Vehicle Identification Number Content Requirements, we are submitting to you the model designation for trailer converter dollies we intend to manufacture. Please refer to the attached "Vehicle Identification Number for Trailers" for complete details on our VIN format.

The converter dollies will be used to connect two semitrailers to form a doubles trailer combination. We are using the model designation "0CD" in the VIN since our VIN format requires three characters for trailer model.

Sincerely,

Julius P. Brauer

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

pc: Curtis Brookshire
Keith Hackney

MANUFACTURING FACILITIES: WASHINGTON, NORTH CAROLINA/INDEPENDENCE, KANSAS
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HACKNEY & SONS, INC.

VEHICLE IDENTIFICATION NUMBER 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, DMT, DTX,
TAW, TSW, TAE, TSE, ØCD

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'
6 for 50' to less than 55'

C. Fifth character
Axle configuration - 1 for single axle, 2 for two axles

Check Digit - Goes between Section II and Section II. 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 - 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=3	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

Serial number 80T24653, a 3-TX-24, 43'-3 1/4" long, would have as its
VIN: 1HH0TX425AM024653

Check digit calculation:

VIN Character	Assigned Value		Weight Factor		Product
1	1	X	8	=	8
H	8	X	7	=	56
H	8	X	6	=	48
0	0	X	5	=	0
T	3	X	4	=	12
X	7	X	3	=	21
4	4	X	2	=	8
2	2	X	10	=	20
?	?	X	0	=	0
A	1	X	9	=	9
M	4	X	8	=	32
0	0	X	7	=	0
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				=	291

$291/11=26$ with a remainder of 5.

Thus 5 is the check digit for this trailer.

Original 6FEB1980

Revised 9APR1984 (Added BTR, BTH models)

Revised 23OCT1986 (Added DMT, DTX models)

Revised 8JAN1988 (Added TAW, TSW, TAE, TSE models)

Revised 16MAR1990 (Added 0CD model)

2203/REGS/VIN/16MAR90

4