B 10/31/85 pay

THAYCO TRAILER CORPORATION
Route 100 North
Box #642
Exton, Pa. 19341

ORIGINAL

August 9, 1985

National Highway Traffic Safety Administration
400 Seventh Street, S.W. Room 5307
Washingtown, D.C. 20590

Attention: Mr. August Burgett

Dear Mr. Burgett, 01-22-N11B-2056

Attached are two (2) copies of the Thayco Trailer Corporation's "VIN" Standard TTC-STD-31-1 Revision B.

The standard was revised to incorporate the comments of your review. Model year coding has been corrected so that 'A' = 1980 'B' = 1981 etc. Note 2 was also changed to reference Table 3/Part 565.4.

We thank you for your prompt review. If necessary, please advise by phone.

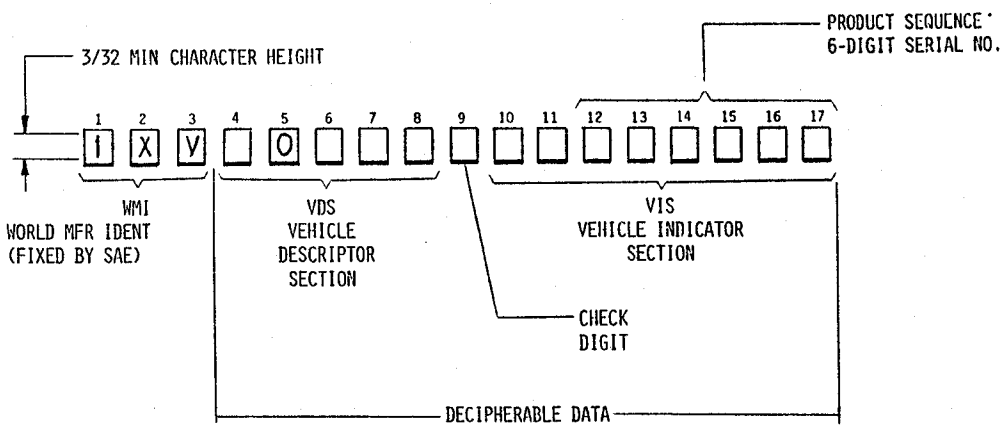
Very truly yours,

Robert W. Kinkle

Robert W. Kinkle
Manager, Engineering

Enc. 2 copies dwg. TTC-STD-31-1

cc: M. Faries
Staff



CHECK DIGIT FORMULA

CHARACTER POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
VIN	1	X	V		0												
ASSIGNED VALUE (1)	1	7	5														
WEIGHT FACTOR (2)	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
PRODUCT																	

TOTAL OF PRODUCTS = [ ] ÷ 11 = [ ] [ ]/11

REMAINDER IS CHECK DIGIT (1 THRU 9) WHEN REMAINDER IS 10 THE CHECK DIGIT IS X.

(1) ASSIGNED VALUES

ASSIGN TO EACH NUMBER ITS ACTUAL MATHEMATICAL VALUE.
ASSIGN TO EACH LETTER THE VALUE INDICATED BELOW.

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

(2) WEIGHT FACTORS ARE FIXED AND ARE IN ACCORDANCE WITH TABLE 3 / PART 565.4

4 [ ] TYPE OF TRAILER

1 - SEMI
2 - DOLLY (CONVERTOR)

5 [ ] SERIES (NOT USED)

6 [ ] BODY TYPE CODE

V - DRY FREIGHT STRAIGHT FRAME VAN
E - DROP FRAME VAN
R - REFREGERATED VAN
U - OPEN TOP
F - FLAT BED (PLATFORM)
X - FLAT BED EXTENABLE

C - CHASSIS, CONTAINER STRAIGHT
G - CHASSIS, CONTAINER GOOSENECK
T - CHASSIS, CONTAINER TWIN 20
W - WEDGE
S - SPECIAL

7 [ ] LENGTH CODE

9 - OVER 45 FEET
A - 45'-0" TO 44'-1"
B - 44'-0" TO 43'-1"
C - 43'-0" TO 42'-1"
D - 42'-0" TO 41'-1"
E - 41'-0" TO 40'-1"
F - 40'-0" TO 39'-1"
G - 39'-0" TO 38'-1"
H - 38'-0" TO 37'-1"
J - 37'-0" TO 36'-1"
K - 36'-0" TO 35'-1"
L - 35'-0" TO 34'-1"
M - 34'-0" TO 33'-1"
N - 33'-0" TO 32'-1"
P - 32'-0" TO 31'-1"
R - 31'-0" TO 30'-1"
S - 30'-0" TO 29'-1"
T - 29'-0" TO 28'-1"
U - 28'-0" TO 27'-1"
V - 27'-0" TO 26'-1"
W - 26'-0" TO 25'-1"
Y - 25'-0" TO 24'-1"
Z - 24'-0" TO 23'-1"
1 - 23'-0" TO 22'-1"
2 - 22'-0" TO 21'-1"
3 - 21'-0" TO 20'-1"
4 - 20'-0"
0 - UNDER 20 FEET

8 [ ] NO. OF AXLES

1 - 1
2 - 2
3 - 3
4 - 4
5 - 5
6 - 6
7 - 7
8 - 8

10 [ ] MODEL YEAR

A - 1980
B - 1981
C - 1982
D - 1983
E - 1984
F - 1985
G - 1986
H - 1987
J - 1988
K - 1989
L - 1990
M - 1991
N - 1992
P - 1993
R - 1994
S - 1995
T - 1996
V - 1997
W - 1998
X - 1999
Y - 2000
1 - 2001
2 - 2002
3 - 3003
4 - 2004
5 - 2005
6 - 2006
7 - 2007
8 - 2008
9 - 2009
A - 2010
B - 2011
C - 2012
D - 2013

11 [ ] PLANT OF MANUFACTURE

E - EXTON, PA. 19341

REV (B) CHART 10 & NOTE 2 CORRECTED ER 2274S-1, 8-9-84 GR

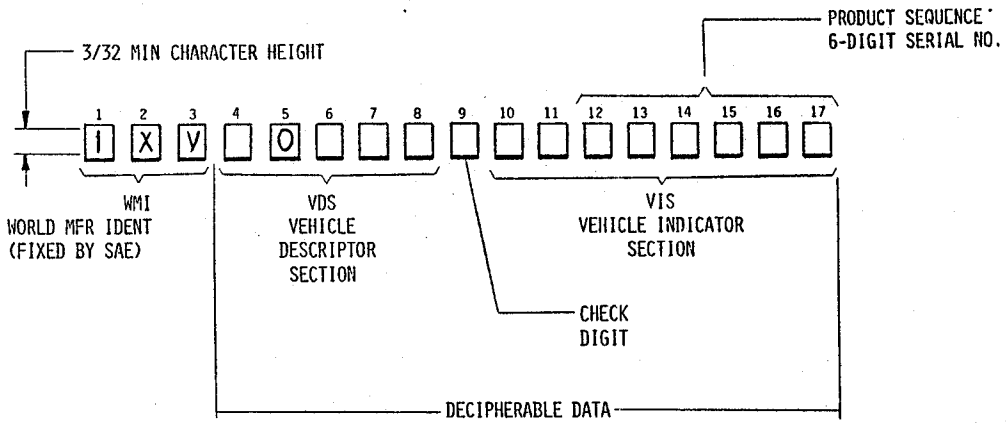
(A) RELEASED PER ER. 2274S DATE 8-8-85
DWN: CHK:
APVD: RWK SCALE:

THAYCO TRAILER CORPORATION

STANDARD
VEHICLE IDENTIFICATION NUMBER (VIN)
SYSTEM

WGT. | TTC-STD-31-1 | B
DRAWING NO. REV.

TTC-STD-31-1



CHECK DIGIT FORMULA

CHARACTER POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
VIN	1	X	V		0												
1 ASSIGNED VALUE	1	7	5														
2 WEIGHT FACTOR	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
PRODUCT																	

TOTAL OF PRODUCTS = [ ] ÷ 11 = [ ] [ ]/11

REMAINDER IS CHECK DIGIT (1 THRU 9) WHEN REMAINDER IS 10 THE CHECK DIGIT IS X.

1 ASSIGNED VALUES

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ASSIGN TO EACH LETTER THE VALUE INDICATED BELOW.

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C = 3	G = 7	L = 3	R = 9	V = 5	Z = 9
D = 4	H = 8	M = 4	S = 2	W = 6	

2 WEIGHT FACTORS ARE FIXED AND ARE IN ACCORDANCE WITH TABLE 3 / PART 565.4

4 [ ] TYPE OF TRAILER

1 - SEMI
2 - DOLLY (CONVERTOR)

5 [ ] SERIES (NOT USED)

6 [ ] BODY TYPE CODE

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E - DROP FRAME VAN
R - REFREGERATED VAN
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A - 45'-0" TO 44'-1"
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F - 40'-0" TO 39'-1"
G - 39'-0" TO 38'-1"
H - 38'-0" TO 37'-1"
J - 37'-0" TO 36'-1"
K - 36'-0" TO 35'-1"
L - 35'-0" TO 34'-1"
M - 34'-0" TO 33'-1"
N - 33'-0" TO 32'-1"
P - 32'-0" TO 31'-1"
R - 31'-0" TO 30'-1"
S - 30'-0" TO 29'-1"
T - 29'-0" TO 28'-1"
U - 28'-0" TO 27'-1"
V - 27'-0" TO 26'-1"
W - 26'-0" TO 25'-1"
Y - 25'-0" TO 24'-1"
Z - 24'-0" TO 23'-1"
1 - 23'-0" TO 22'-1"
2 - 22'-0" TO 21'-1"
3 - 21'-0" TO 20'-1"
4 - 20'-0"
0 - UNDER 20 FEET

8 [ ] NO. OF AXLES

1 - 1
2 - 2
3 - 3
4 - 4
5 - 5
6 - 6
7 - 7
8 - 8

10 [ ] MODEL YEAR

A - 1980
B - 1981
C - 1982
D - 1983
E - 1984
F - 1985
G - 1986
H - 1987
J - 1988
K - 1989
L - 1990
M - 1991
N - 1992
P - 1993
R - 1994
S - 1995
T - 1996
V - 1997
W - 1998
X - 1999
Y - 2000
1 - 2001
2 - 2002
3 - 2003
4 - 2004
5 - 2005
6 - 2006
7 - 2007
8 - 2008
9 - 2009
A - 2010
B - 2011
C - 2012
D - 2013

11 [ ] PLANT OF MANUFACTURE

E - EXTON, PA. 19341

REV (B) CHART 10 & NOTE 2 CORRECTED ER 2Z74S-1, 8-7-85 GR

(A) RELEASED PER ER. 2Z74S DATE 8-8-85
DWN: CHK:
APVD: RWK SCALE:

THAYER TRAILER CORPORATION

STANDARD
VEHICLE IDENTIFICATION NUMBER (VIN)
SYSTEM

WGT.

TTC-STD-31-1 B

DRAWING NO. REV.

TTC-STD-31-1

THAYCO TRAILER CORP.
ROUTE 100 North
Box 642
Exton, Pa. 19341

August 8, 1985

National Highway Traffic Safety Administration
400 Seventh Street, S.W. Room 5307
Washingtown, D.C. 20590

Attention: Mr. August Burgett

Dear Mr. Burgett,

In accordance with our telephone conversation of today, and in compliance with the requirements of FMVSS 115, and part 565 of the Federal Register, please find a copy of the Vehicle Identification Number System (VIN) that the Thayco Trailer Corporation developed as a standard for use on its applicable product line. (Dwg. TTC-STD-31-1).

Please note that since the Trailer Division of the Budd Company was sold this week to the Thayco Trailer Corporation, I have kept the exact same system and simply changed to a new WMI number and changed the name of the company. We need your authorization approval before August 23rd to continue our plant production, therefore please call me as soon as possible.

We look forward to your favorable review.

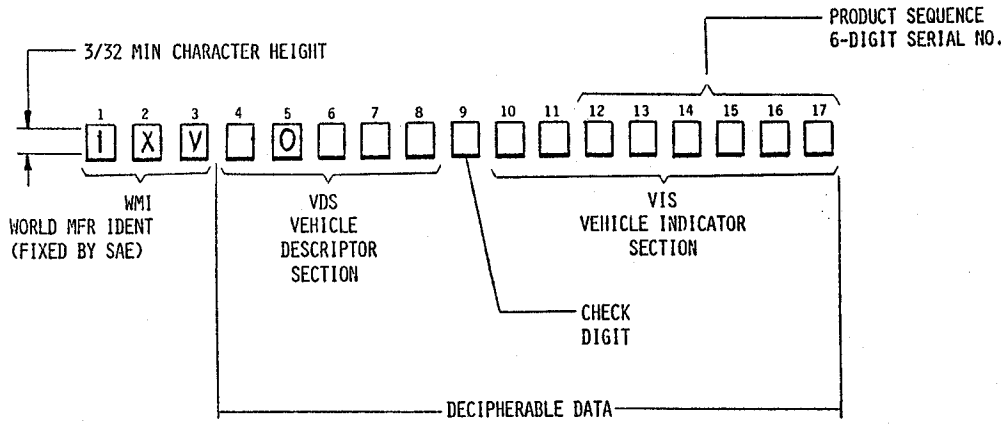
Very truly yours,

Robert W Kinkle

Robert W. Kinkle
Manager, Engineering

Enc. - 2 copies dwg. TTC-STD-31-1
1 copy VIN plate

cc: M. Faries
Staff
Engineers



CHECK DIGIT FORMULA

CHARACTER POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
VIN	1	X	V		0												
1 ASSIGNED VALUE	1	7	5														
2 WEIGHT FACTOR	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
PRODUCT																	

TOTAL OF PRODUCTS = [ ] ÷ 11 = [ ] [ ]/11

REMAINDER IS CHECK DIGIT (1 THRU 9) WHEN REMAINDER IS 10 THE CHECK DIGIT IS X.

1 ASSIGNED VALUES

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D = 4	H = 8	M = 4	S = 2	W = 6	

2 WEIGHT FACTORS ARE FIXED AND ARE IN ACCORDANCE WITH SECTION S 5 OF FMVSS 115.

Table III of Part 565.4

4 [ ] TYPE OF TRAILER

1 - SEMI
2 - DOLLY (CONVERTOR)

5 [ ] SERIES (NOT USED)

6 [ ] BODY TYPE CODE

V - DRY FREIGHT STRAIGHT FRAME VAN
E - DROP FRAME VAN
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C - CHASSIS, CONTAINER STRAIGHT
G - CHASSIS, CONTAINER GOOSENECK
T - CHASSIS, CONTAINER TWIN 20
W - WEDGE
S - SPECIAL

7 [ ] LENGTH CODE

9 - OVER 45 FEET	P - 32'-0" TO 31'-1"
A - 45'-0" TO 44'-1"	R - 31'-0" TO 30'-1"
B - 44'-0" TO 43'-1"	S - 30'-0" TO 29'-1"
C - 43'-0" TO 42'-1"	T - 29'-0" TO 28'-1"
D - 42'-0" TO 41'-1"	U - 28'-0" TO 27'-1"
E - 41'-0" TO 40'-1"	V - 27'-0" TO 26'-1"
F - 40'-0" TO 39'-1"	W - 26'-0" TO 25'-1"
G - 39'-0" TO 38'-1"	Y - 25'-0" TO 24'-1"
H - 38'-0" TO 37'-1"	Z - 24'-0" TO 23'-1"
J - 37'-0" TO 36'-1"	1 - 23'-0" TO 22'-1"
K - 36'-0" TO 35'-1"	2 - 22'-0" TO 21'-1"
L - 35'-0" TO 34'-1"	3 - 21'-0" TO 20'-1"
M - 34'-0" TO 33'-1"	4 - 20'-0"
N - 33'-0" TO 32'-1"	0 - UNDER 20 FEET

8 [ ] NO. OF AXLES

1 - 1
2 - 2
3 - 3
4 - 4
5 - 5
6 - 6
7 - 7
8 - 8

10 [ ] MODEL YEAR

A - 1985	T - 2001
B - 1986	V - 2002
C - 1987	W - 2003
D - 1988	X - 2004
E - 1989	Y - 2005
F - 1990	1 - 2006
G - 1991	2 - 2007
H - 1992	3 - 2008
J - 1993	4 - 2009
K - 1994	5 - 2010
L - 1995	6 - 2011
M - 1996	7 - 2012
N - 1997	8 - 2013
P - 1998	9 - 2014
R - 1999	A - 2015
S - 2000	B - 2016
	C - 2017

11 [ ] PLANT OF MANUFACTURE

E - EXTON, PA. 19341

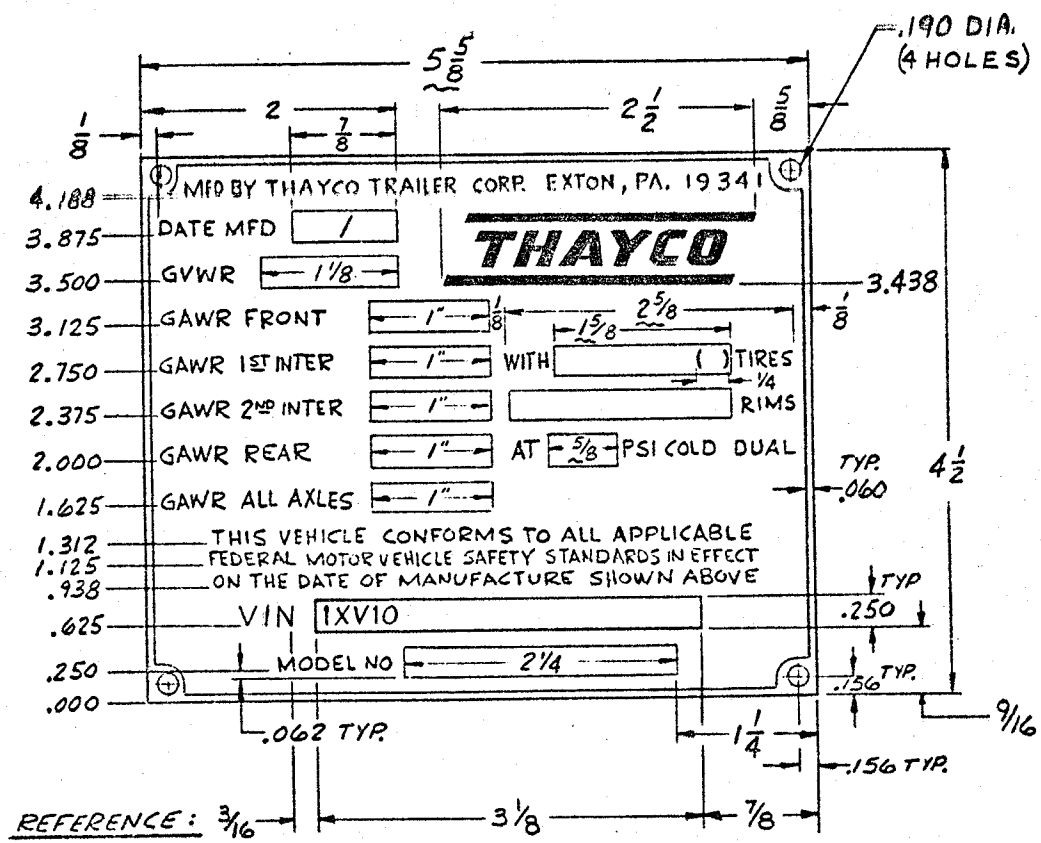
TTC-STD-31-1

A RELEASED PER ER 2274 S DATE 8-8-85
DWN: GR CHK:
APVD: RWK SCALE:

THAYCO TRAILER CORPORATION

STANDARD
VEHICLE IDENTIFICATION NUMBER (VIN)
SYSTEM

WGT. | TTC-STD-31-1 (DRAWING NO.) | A (REV.)



NOTES:

1. LOGO TO MATCH THAYCO ARTWORK LOCATION & SIZE AS NOTED

2. ALL CHARACTERS TO BE 12 PT. (.110") HELVETICA MEDIUM UPPER CASE LOCATED OR CENTERED AS SHOWN

3. REVERSE ETCH WITH BLACK BACKGROUND. ALL CHARACTERS, BLOCKS & BORDER TO BE SILVER WITH THE FOLLOWING EXCEPTIONS: THE SLASH "/" WITHIN THE DATE BLOCK, THE PARENTHESIS "( )" WITHIN THE TIRE BLOCK & "1XV10" IN THE VIN BLOCK ARE TO BE BLACK.

REFERENCE:

A. STAMPING OF DATA MUST BE 3/32 HIGH MIN.

B. TIRE & RIM SIZE MUST BE DESIGNATED PER THE FOLLOWING EXAMPLES:

(TUBE TYPE)	(TUBELESS)
WITH 10.00-20 (F) TIRES	WITH 11-22.5 (F) TIRES
20 X 7.5 RIMS	22.5 X 7.5 RIMS

THIS FORM MUST BE FOLLOWED, INCLUDING THE SYMBOLS "–" & "X"

DO NOT SCALE DRAWING; GENERAL NOTES PER ENGINEERING DEPARTMENT STANDARD BCTD-STD-1

A31-B-77623

NOTICE: THIS DRAWING IS INTENDED TO CONVEY INFORMATION AND IS TO BE CONSIDERED THE EXCLUSIVE PROPERTY OF THE RUDD COMPANY. IT SHALL NOT BE REPRODUCED OR COMMUNICATED TO OTHERS WITHOUT FIRST OBTAINING WRITTEN PERMISSION OF THE RUDD COMPANY

MATL: .032 THICK ALUM. ALLOY 5052-H34 PROTECTIVE PAPER ON FACE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES AND TOLERANCES ARE FRAC ±1/32 DEC ±.010 ANGLES ±1/2°

LTR.	DESCRIPTION / DATE	BY
	REVISIONS	

A RELEASED PER EP DATE

DWN: F.K. CHK: APVD. SCALE: SCALE

THE RUDD COMPANY TRAILER DIVISION DOWNINGTOWN, PA. 19335

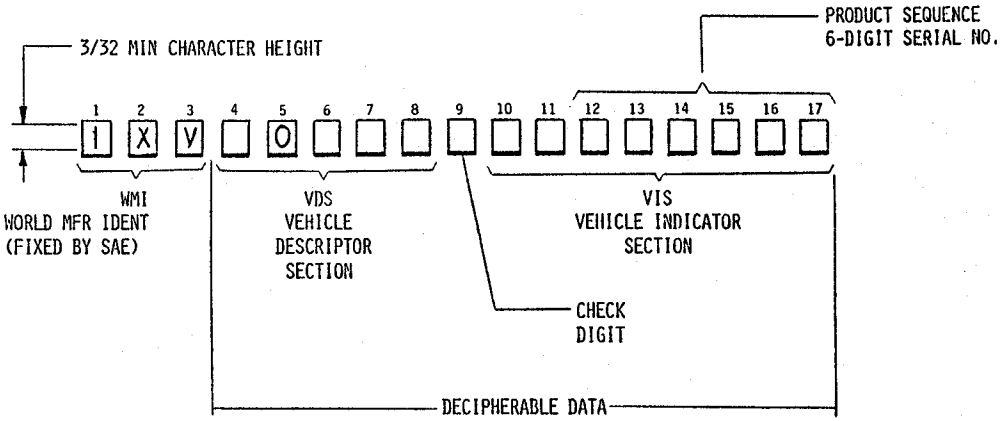
PLATE, IDENTIFICATION SERIAL NO. & DATA / 120

WGT.

A31-B-77623 A

B/L A31-B-70266

DRAWING NO. REV.



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ASSIGNED VALUE (1)	1	7	5														
WEIGHT FACTOR (2)	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
PRODUCT																	

TOTAL OF PRODUCTS = [ ] ÷ 11 = [ ] [ ]/11

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D = 4	H = 8	M = 4	S = 2	W = 6	

(2) WEIGHT FACTORS ARE FIXED AND ARE IN ACCORDANCE WITH SECTION S 5 OF FMVSS 115.

4 [ ] TYPE OF TRAILER

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2 - DOLLY (CONVERTOR)

5 [ ] SERIES (NOT USED)

6 [ ] BODY TYPE CODE

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8 [ ] NO. OF AXLES

1 - 1
2 - 2
3 - 3
4 - 4
5 - 5
6 - 6
7 - 7
8 - 8

10 [ ] MODEL YEAR

A - 1985
B - 1986
C - 1987
D - 1988
E - 1989
F - 1990
G - 1991
H - 1992
J - 1993
K - 1994
L - 1995
M - 1996
N - 1997
P - 1998
R - 1999
S - 2000
T - 2001
V - 2002
W - 2003
X - 2004
Y - 2005
1 - 2006
2 - 2007
3 - 2008
4 - 2009
5 - 2010
6 - 2011
7 - 2012
8 - 2013
9 - 2014
A - 2015
B - 2016
C - 2017

11 [ ] PLANT OF MANUFACTURE

E - EXTON, PA. 19341

(A) RELEASED PER ER 2274 S
DATE 8-8-85
DWN: GR CHK:
APVD: RWK SCALE:

THAYCO TRAILER CORPORATION

STANDARD
VEHICLE IDENTIFICATION NUMBER (VIN)
SYSTEM

WGT. | TTC-STD-31-1 | A

DRAWING NO. REV.

TTC-STD-31-1

8/8/85

~~Kendall~~]

Budd → Vaco (?) Trailers

Bob Kinkle
215 458 - 5301
Exton

8/13/85
OK - based on 8/9/85 letter

8