

01-022-NHB-7963 COPY



SOLAR TECHNOLOGY, Inc.

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ORIGINAL

FAX 610-391-8601

October 22, 1992

6 pp

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

49CFR 565
VIN ID

Attention: VIN Coordinator, NRM-11, Rm. 5307

Dear Sir:

Solar Technology, Inc. is a Pennsylvania Corporation engaged in the manufacture of solar powered traffic control equipment. Attached you will find a brochure featuring our SILENT SENTINEL solar powered arrow board. We are submitting the enclosed information to you to comply with requirements regarding the use of vehicle identification numbers.

All manufacturing is done in Allentown, PA 18103, United States. We assign a specific serial to each unit as it is manufactured, and this number appears on the tongue of the trailer, as well as on the inside of the battery storage compartment with operating and safety instructions. The VIN will also appear inside the battery storage compartment.

On the attached worksheet, I have noted detailed explanations for the individual sectors comprising the VIN. I trust that you will find this information in order. If you should require any further information, please advise in order that we may be in compliance with regulations.

I have enclosed a copy of the letter we received from the SAE which indicates the first three digits which have been assigned to us for our VIN.

Thank you for your cooperation and assistance in this matter.

Sincerely,

Diane M. Zerphy

Enclosures

0001

VIN WORKSHEET - TRAFFIC SIGNALS

Model # TS-	4	5	2	0																
Serial #	0	1	2	4	4															

Instructions:
 1. Enter Model # and Ser# in Rows 2 & 3 / C thru H (See shaded area)
 2. Enter whole number and decimal in blocks provided (C13 & C14)
 3. Find "Check Digit", enter in block provided (C15).
 4. Print - Click on "Print Icon" on toolbar above (located below "View").

0002

Character Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
Actual VIN #	4	G	M	1	T	1	5	1	7	Y	1	0	1	2	4	4					
Converted Values	4	7	4	1	3	1	5	1	7	8	1	1	0	1	2	4	4				
Multiplier	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2				
Product (Values x Multiplier)	32	49	24	5	12	3	10	10	0	72	8	7	0	5	8	12	8				

Whole Number	27
Decimal	.81
Check Digit	9

Insert check digit here.
 This number will auto insert in K8 & K9.

The sum of the products is divided by 11.0. A minimum of two (2) decimals is required for "check digit".
 Find "check digit" by referencing the first two decimal digits.
 Do not round off !!! Ex: 27.818 = .81 (check digit = 9)

27.81

Alpha to Numeric Conversion Values

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

Decimal = Check Digit

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

Definitions of Character Positions:

1, 2, & 3	STT's World Mfg. ID from SAE
4	Class of Trailer
5	Series/Body Type (AB, MB, etc.)
6 & 7	Overall Length
8	Number of Axles
9	Check Digit
10	Model Year
11	Plant #
12 thru 17	Manufacturer's Serial No.

Model Year

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

Chac. Position # 5

A = Arrow Board
M = Message Boards
T = Traffic Signal

Overall Length

AB = 09
MBII = 09
MB = 17
TS = 15

49C FR565
 VIN ID

VIN WORKSHEET - MB3

Model # MB3-	2	2	4	8			
Serial #	4	7	0	0	0	1	

Instructions:

1. Enter Model # and Ser# in Rows 2 & 3 / C thru H (See shaded area).
2. Enter whole number and decimal in blocks provided (C13 & C14)
3. Find "Check Digit", enter in block provided (C15).
4. Print - Click on "Print Icon" on toolbar above (located below "View".

0004

Character Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
Actual VIN #	4	G	M	1	M	1	0	1	5	Y	1	4	7	0	0	0	1				
Converted Values	4	7	4	1	4	1	0	1	7	8	1	4	7	0	0	0	1				
Multiplier	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2				
Product (Values x Multiplier)	32	49	24	5	16	3	0	10	0	72	8	28	42	0	0	0	2				

Whole Number	27
Decimal	.81
Check Digit	

Insert check digit here.
This number will auto insert in K8 & K9.

The sum of the products is divided by 11.0. A minimum of two (2) decimals is required for "check digit".
Find "check digit" by referending first two decimal digits.
Do not round off !!! Ex: 27.818 = .81 (check digit = 9)

26.455

Alpha to Numeric Conversion Values

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

Decimal = Check Digit

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

Definitions of Character Positions:

1, 2, & 3	STI's World Mfg. ID from SAE
4	Class of Trailer
5	Series/Body Type (AB, MB, etc.)
6 & 7	Overall Length
8	Number of Axes
9	Check Digit
10	Model Year
11	Plant #
12 thru 17	Manufacturer's Serial No.

Model Year

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

Chac. Position # 5

A = Arrow Board
M = Message Boards

Overall Length

AB = 09
MBII = 09
MB = 17

VIN WORKSHEET - MB II

Model # MB-

Serial #

Instructions:

1. Enter Model # and Ser# in Rows 2 & 3 / C thru H (See shaded area).
2. Enter whole number and decimal in blocks provided (C13 & C14)
3. Find "Check Digit", enter in block provided (C15).
4. Print - Click on "Print Icon" on toolbar above (located below "View").

Character Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
Actual VIN #	4	G	M	1	M	1	0	1	2	Y	1	4	5	2	2	4	7			
Converted Values	4	7	4	1	4	1	0	1	7	8	1	4	5	2	2	4	7			
Multiplier	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2			
Product (Values x Multiplier)	32	49	24	5	16	3	0	10	0	72	8	28	30	10	8	12	14			

Whole Number

Decimal

Check Digit

Insert check digit here.
This number will auto insert in K8 & K9.

The sum of the products is divided by 11.0. A minimum of two (2) decimals is required for "check digit".
Find "check digit" by referencing first two decimal digits.
Do not round off !!! Ex: 27.818 = .81 (check digit = 9)

Alpha to Numeric Conversion Values

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

Decimal = Check Digit

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

Definitions of Character Positions:

1, 2, & 3 STI's World Mfg. ID from SAE
 4 Class of Trailer
 5 Series/Body Type (AB, MB, etc.)
 6 & 7 Overall Length
 8 Number of Axles
 9 Check Digit
 10 Model Year
 11 Plant #
 12 thru 17 Manufacturer's Serial No.

Model Year

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

Chac. Position # 5

A = Arrow Board
 M = Message Boards

Overall Length

AB = 09
 MBII = 09
 MB = 17

VIN WORKSHEET - MESSAGE BOARDS									
Model # MB-	4	0	4	9					
Serial #	4	D	7	5	9	0			

Instructions:

1. Enter Model # and Ser# in Rows 2 & 3 / C thru H (See shaded area)
2. Enter whole number and decimal in blocks provided (C13 & C14)
3. Find "Check Digit", enter in block provided (C15).
4. Print - Click on "Print Icon" on toolbar above (located below "View").

Character Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
Actual VIN #	4	G	M	2	M	1	7	1	7	Y	1	0	0	7	5	9	0				
Converted Values	4	7	4	2	4	1	7	1	7	8	1	4	0	7	5	9	0				
Multiplier	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2				
Product (Values x Multiplier)	32	49	24	10	16	3	14	10	0	72	8	28	0	35	20	27	0				

Whole Number	27
Decimal	.81
Check Digit	9

Insert check digit here. This number will auto insert in K8 & K9.

The sum of the products is divided by 11.0. A minimum of two (2) decimals is required for "check digit". Find "check digit" by referencing the first two decimal digits. Do not round off !!! Ex: 27.818 = .81 (check digit = 9)

Alpha to Numeric Conversion Values

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

Decimal = Check Digit

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

Definitions of Character Positions:

- 1, 2, & 3 STI's World Mfg. ID from SAE
- 4 Class of Trailer
- 5 Series/Body Type (AB, MB, etc.)
- 6 & 7 Overall Length
- 8 Number of Axles
- 9 Check Digit
- 10 Model Year
- 11 Plant #
- 12 thru 17 Manufacturer's Serial No.

Model Year

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

Chac. Position # 5

A = Arrow Board
M = Message Boards

Overall Length

AB = 09
MB11 = 09
MB = 17