

ORIGINAL

B 10/30/85 pdy

**VOLVO WHITE**  
**Volvo White Truck Corporation**

Greensboro, North Carolina

August 16, 1985

01-22-NIB-2054

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

Subject: Compliance to 49 CFR Part 565

Attention: VIN Coordinator

Volvo White Truck Corporation's VIN codes for Autocar, White and Volvo vehicles identified February 8, 1984 (copy attached) will carry over without change to the 1986 model year.

Very truly yours,

VOLVO WHITE TRUCK CORPORATION

J. W. Lawrence  
Manager, Compliance and Recall

JWL/1a  
Encl. 2/8/84 memo and attachments

# **VOLVO WHITE**

## **Volvo White Truck Corporation**

Greensboro, North Carolina

February 8, 1984

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

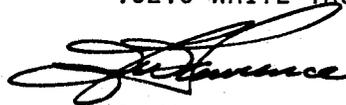
Subject: Compliance to 49 CFR Part 571.115

Attention: VIN Coordinator

Enclosed per the requirements of FMVSS-115 is an amendment to Volvo White Truck Corporation's VIN Codes for the remainder of the 1984 model year and for use on 1985 models.

Very truly yours,

VOLVO WHITE TRUCK CORPORATION



J. W. Lawrence  
Manager, Compliance and  
Recall

JWL/1a  
Encl.

2

VOLVO WHITE TRUCK CORPORATION  
GREENSBORO, NORTH CAROLINA

1984 & 1985 Model Year VIN Codes (Domestic Production)

Positions identified left to right

1. Country of Manufacture:

<u>CODE</u>	<u>DESCRIPTION</u>
1	United States

2. Manufacturer:

<u>CODE</u>	<u>DESCRIPTION</u>
W	Volvo White Truck Corporation P.O. Box D-1 Greensboro, North Carolina 27402-1200

3. Make/Type:

<u>CODE</u>	<u>DESCRIPTION</u>
A	Autocar complete vehicle
B	Autocar incomplete vehicle
* D	Autocar glider
U	White complete vehicle
X	White incomplete vehicle
Y	White glider

4. Model or Line:

<u>CODE</u>	<u>DESCRIPTION</u>
A	White conventional short
B	White conventional medium
C	White conventional long
D	White low cab over
E	White high cab over short
F	White high cab over medium
G	White high cab over long
K	Autocar K short
M	Autocar K medium
L	Autocar K long
P	Autocar DS
R	Autocar C & DC
S	Autocar S
T	Autocar T
U	Autocar DK
X	White conventional sleeper short
Y	White conventional sleeper medium
Z	White conventional sleeper long

\* Revised 8/25/83 was "C"

Revised 2/8/84 added "P" & 1985 model year

## 5. Open:

Position 5 is used by Volvo White for internal purposes and consists of alpha and numeric characters.

## 6. Cab configuration, brake system and GVW class:

<u>CODE</u>	<u>DESCRIPTION</u>	<u>Brake System</u>	<u>GVW Class</u>
	<u>Cab Configuration</u>		
A	Cab behind engine	Air	Class 6
B	Cab behind engine	Air	Class 7
C	Cab behind engine	Air	Class 8
D	COE high mount	Air	Class 7
E	COE high mount	Air	Class 8
F	COE low mount	Air	Class 6
G	COE low mount	Air	Class 7
H	COE low mount	Air	Class 8

## 7. Engine Manufacturer/Series/Type

<u>CODE</u>	<u>DESCRIPTION</u>	<u>Series</u>	<u>Type</u>
	<u>Manufacturer</u>		
A	Caterpillar	3208	Diesel
B	Caterpillar	3306	Diesel
C	Caterpillar	3406	Diesel
D	Caterpillar	3408	Diesel
H	Cummins	Small V	Diesel
J	Cummins	NTC&F	Diesel
K	Cummins	K	Diesel
L	Cummins	903	Diesel
M	Cummins	L-10	Diesel
S	Detroit Diesel	6-71	Diesel
T	Detroit Diesel	8V-71	Diesel
U	Detroit Diesel	6V-92	Diesel
V	Detroit Diesel	8V-92	Diesel
X	Volvo	TD-121	Diesel
Z	No engine (glider)		

## 8. Engine horsepower:

<u>CODE</u>	<u>HORSEPOWER RANGE</u>
A	135-164
B	165-194
C	195-224
D	225-274
E	275-324
F	325-374
G	375-424
H	425-474
J	475-524
K	525-574
L	575-625
Z	None (glider)

9. Check Digit:

The check digit is calculated as required by FMVSS-115.

10. Model Year:

The model year codes are as identified in FMVSS-115.

11. Plant of Manufacture:

<u>CODE</u>	<u>PLANT LOCATION</u>
N	New River Valley, Virginia
U	Ogden, Utah

12to 17 Sequential Serial Numbers.

5

VEHICLE IDENTIFICATION NUMBER

Federal Motor Vehicle Safety Standard No. 115 Vehicle Identification Number goes into effect with all vehicles manufactured on or after September 1, 1980. 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.

VMI World Manufacturer Identifier			VDS Vehicle Descriptor Section					C D	VIS Vehicle Indicator Section																																																																													
1	2	3	4	5	6	7	8	9	10	11	12 - 17																																																																											
<table border="1"> <thead> <tr> <th colspan="3">ENGINE</th> </tr> <tr> <th>TYPE</th> <th>FUEL</th> <th>CODE</th> </tr> </thead> <tbody> <tr><td>TD60B</td><td>"</td><td>06B</td></tr> <tr><td>TD70F</td><td>"</td><td>07F</td></tr> <tr><td>TD70FC</td><td>"</td><td>7FC</td></tr> <tr><td>TD101GB</td><td>"</td><td>0A3</td></tr> <tr><td>TD101F</td><td>"</td><td>0A4</td></tr> <tr><td>TD101FA</td><td>"</td><td>0A5</td></tr> <tr><td>TD121FA</td><td>"</td><td>2A5</td></tr> <tr><td>TD121FB</td><td>"</td><td>2A6</td></tr> <tr><td>TD121FC</td><td>"</td><td>2A7</td></tr> <tr><td>TD121FE</td><td>"</td><td>2A8</td></tr> <tr><td>TD121FF</td><td>"</td><td>2A9</td></tr> <tr><td>TD121FG</td><td>"</td><td>2B1</td></tr> <tr><td colspan="3">Other, see table 3</td></tr> </tbody> </table>												ENGINE			TYPE	FUEL	CODE	TD60B	"	06B	TD70F	"	07F	TD70FC	"	7FC	TD101GB	"	0A3	TD101F	"	0A4	TD101FA	"	0A5	TD121FA	"	2A5	TD121FB	"	2A6	TD121FC	"	2A7	TD121FE	"	2A8	TD121FF	"	2A9	TD121FG	"	2B1	Other, see table 3			<p>SEQUENCE NUMBER (Always Numeric)</p> <p>These six characters represent the number sequentially assigned by the manufacturer in the production process.</p>																													
												ENGINE																																																																										
TYPE	FUEL	CODE																																																																																				
TD60B	"	06B																																																																																				
TD70F	"	07F																																																																																				
TD70FC	"	7FC																																																																																				
TD101GB	"	0A3																																																																																				
TD101F	"	0A4																																																																																				
TD101FA	"	0A5																																																																																				
TD121FA	"	2A5																																																																																				
TD121FB	"	2A6																																																																																				
TD121FC	"	2A7																																																																																				
TD121FE	"	2A8																																																																																				
TD121FF	"	2A9																																																																																				
TD121FG	"	2B1																																																																																				
Other, see table 3																																																																																						
<table border="1"> <thead> <tr> <th colspan="2">PLANT OF ASSEMBLY</th> <th>CODE</th> </tr> </thead> <tbody> <tr><td>VOLVO TRUCK CORPORATION</td><td></td><td>A</td></tr> <tr><td>VOLVO EUROPA TRUCK NV</td><td></td><td>B</td></tr> <tr><td>VOLVO DO BRASIL</td><td></td><td>E</td></tr> <tr><td>VOLVO WHITE TRUCK CORP, USA</td><td></td><td>U</td></tr> <tr><td colspan="3">Other, see table 7.</td></tr> </tbody> </table>										PLANT OF ASSEMBLY		CODE	VOLVO TRUCK CORPORATION		A	VOLVO EUROPA TRUCK NV		B	VOLVO DO BRASIL		E	VOLVO WHITE TRUCK CORP, USA		U	Other, see table 7.			<p>TABLE 6</p> <table border="1"> <thead> <tr> <th colspan="4">MODEL YEAR</th> </tr> <tr> <th>CODE</th> <th>CODE</th> <th>CODE</th> <th>CODE</th> </tr> </thead> <tbody> <tr><td>1980</td><td>A</td><td>1991</td><td>M</td></tr> <tr><td>1981</td><td>B</td><td>1992</td><td>N</td></tr> <tr><td>1982</td><td>C</td><td>1993</td><td>P</td></tr> <tr><td>1983</td><td>D</td><td>1994</td><td>R</td></tr> <tr><td>1984</td><td>E</td><td>1995</td><td>S</td></tr> <tr><td>1985</td><td>F</td><td>1996</td><td>T</td></tr> <tr><td>1986</td><td>G</td><td>1997</td><td>V</td></tr> <tr><td>1987</td><td>H</td><td>1998</td><td>W</td></tr> <tr><td>1988</td><td>J</td><td>1999</td><td>X</td></tr> <tr><td>1989</td><td>K</td><td>2000</td><td>Y</td></tr> <tr><td>1990</td><td>L</td><td></td><td></td></tr> </tbody> </table>		MODEL YEAR				CODE	CODE	CODE	CODE	1980	A	1991	M	1981	B	1992	N	1982	C	1993	P	1983	D	1994	R	1984	E	1995	S	1985	F	1996	T	1986	G	1997	V	1987	H	1998	W	1988	J	1999	X	1989	K	2000	Y	1990	L							
PLANT OF ASSEMBLY		CODE																																																																																				
VOLVO TRUCK CORPORATION		A																																																																																				
VOLVO EUROPA TRUCK NV		B																																																																																				
VOLVO DO BRASIL		E																																																																																				
VOLVO WHITE TRUCK CORP, USA		U																																																																																				
Other, see table 7.																																																																																						
MODEL YEAR																																																																																						
CODE	CODE	CODE	CODE																																																																																			
1980	A	1991	M																																																																																			
1981	B	1992	N																																																																																			
1982	C	1993	P																																																																																			
1983	D	1994	R																																																																																			
1984	E	1995	S																																																																																			
1985	F	1996	T																																																																																			
1986	G	1997	V																																																																																			
1987	H	1998	W																																																																																			
1988	J	1999	X																																																																																			
1989	K	2000	Y																																																																																			
1990	L																																																																																					
<p>TABLE 2</p> <table border="1"> <thead> <tr> <th>CAB TYPE</th> <th>VOLVO DESIGN</th> </tr> </thead> <tbody> <tr><td>Cab over engine HT</td><td>H</td></tr> <tr><td>Cab over engine LT</td><td>L</td></tr> <tr><td>Cab behind engine</td><td>N</td></tr> <tr><td>Special products:</td><td></td></tr> <tr><td>  F12 with F7-cab</td><td>C</td></tr> <tr><td>  F6 with F7-cab</td><td>M</td></tr> <tr><td>etc</td><td></td></tr> </tbody> </table>												CAB TYPE	VOLVO DESIGN	Cab over engine HT	H	Cab over engine LT	L	Cab behind engine	N	Special products:		F12 with F7-cab	C	F6 with F7-cab	M	etc		<p>CHECK DIGIT See table 5</p>																																																										
CAB TYPE	VOLVO DESIGN																																																																																					
Cab over engine HT	H																																																																																					
Cab over engine LT	L																																																																																					
Cab behind engine	N																																																																																					
Special products:																																																																																						
F12 with F7-cab	C																																																																																					
F6 with F7-cab	M																																																																																					
etc																																																																																						
<p>TABLE 1</p> <table border="1"> <thead> <tr> <th>VEHICLE MANUFACTURER</th> <th>VEHICLE TYPE</th> <th>CODE</th> </tr> </thead> <tbody> <tr><td>VOLVO TRUCK CORP</td><td>Incomplete vehicles</td><td>YV5</td></tr> <tr><td>S-40508 GÖTEBORG</td><td>Sweden Trucks</td><td>YV2</td></tr> <tr><td>VOLVO EUROPA TRUCK NV</td><td>Incomplete vehicles</td><td>YB3</td></tr> <tr><td>Smalle Heirweg 8</td><td>Belgium Trucks</td><td>YB1</td></tr> <tr><td>B-9040 OOSTAKKER</td><td></td><td></td></tr> <tr><td>Volvo</td><td></td><td></td></tr> <tr><td>VOLVO DO BRASIL S A</td><td>Trucks</td><td>9BV</td></tr> <tr><td>Lateral Direita 2600</td><td></td><td></td></tr> <tr><td>80000 CURITIBA</td><td></td><td></td></tr> <tr><td>Brasil</td><td></td><td></td></tr> </tbody> </table>												VEHICLE MANUFACTURER	VEHICLE TYPE	CODE	VOLVO TRUCK CORP	Incomplete vehicles	YV5	S-40508 GÖTEBORG	Sweden Trucks	YV2	VOLVO EUROPA TRUCK NV	Incomplete vehicles	YB3	Smalle Heirweg 8	Belgium Trucks	YB1	B-9040 OOSTAKKER			Volvo			VOLVO DO BRASIL S A	Trucks	9BV	Lateral Direita 2600			80000 CURITIBA			Brasil			<p>TABLE 4</p> <table border="1"> <thead> <tr> <th>Brake/Drive</th> <th>4x2</th> <th>4x4</th> <th>6x2</th> <th>6x4</th> <th>6x6</th> <th>8x2</th> <th>8x4</th> <th>8x6</th> <th>8x8</th> </tr> <tr> <td></td> <td colspan="9">Code</td> </tr> <tr> <td>Air brake</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> <td>G</td> <td>H</td> <td>J</td> </tr> <tr> <td>Air-hydraulic brake</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> </thead> </table>		Brake/Drive	4x2	4x4	6x2	6x4	6x6	8x2	8x4	8x6	8x8		Code									Air brake	A	B	C	D	E	F	G	H	J	Air-hydraulic brake	1	2	3	4	5	6	7	8	9
VEHICLE MANUFACTURER	VEHICLE TYPE	CODE																																																																																				
VOLVO TRUCK CORP	Incomplete vehicles	YV5																																																																																				
S-40508 GÖTEBORG	Sweden Trucks	YV2																																																																																				
VOLVO EUROPA TRUCK NV	Incomplete vehicles	YB3																																																																																				
Smalle Heirweg 8	Belgium Trucks	YB1																																																																																				
B-9040 OOSTAKKER																																																																																						
Volvo																																																																																						
VOLVO DO BRASIL S A	Trucks	9BV																																																																																				
Lateral Direita 2600																																																																																						
80000 CURITIBA																																																																																						
Brasil																																																																																						
Brake/Drive	4x2	4x4	6x2	6x4	6x6	8x2	8x4	8x6	8x8																																																																													
	Code																																																																																					
Air brake	A	B	C	D	E	F	G	H	J																																																																													
Air-hydraulic brake	1	2	3	4	5	6	7	8	9																																																																													

VIN = VEHICLE IDENTIFICATION NUMBER

VEHICLE IDENTIFICATION NUMBER

TABLE 5  
CHECK DIGIT

The check digit is determined by carrying out the mathematical computation that is specified below. 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 A. Multiply the assigned value for each character in the vehicle identification number by the weight factor specified in table B. Add the resulting product and divide the total by 11. The remainder is the check digit. If the remainder is 10 the check digit is X.

EXAMPLE

VIN-number Y V 2 H 1 2 F A A A 0 0 2 3 4 5  
Assigned  
value 8 5 2 8 1 2 6 1 1 1 0 0 2 3 4 5  
Multiply by  
weight  
factor 8 7 6 5 4 3 2 10 9 8 7 6 5 4 3 2  
 $64+35+12+40+4+6+12+10 + 9+ 8+ 0+ 0+10+12+12+10=244$   
Divided by 11  
 $244:11=22 \text{ R } 2:11$   
Check digit = 2 (must be stamped in "CD" square)

TABLE A

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 B

Character	Weight factor
1st	8
2nd	7
3rd	6
4th	5
5th	4
6th	3
7th	2
8th	10
Check digit	0
9th	9
10th	8
11th	7
12th	6
13th	5
14th	4
15th	3
16th	2

TABLE 3

ENGINE TYPE			
MANUFACTURER	TYPE	FUEL	CODE
VOLVO KOMP AB	TD40A	Diesel	04A
"	TD60A	"	06A
"	TD60B	"	06B
"	TD60C	"	06C
"	TD70F	"	07F
"	TD70FC	"	7FC
"	TD70FS	"	7FS
"	TD70G	"	07G
"	TD100A	"	10A
"	TD100B	"	10B
"	TD100C	"	10C
"	TD100G	"	10G
"	TD100GA	"	0GA
"	TD120C	"	12C
"	TD120D	"	12D
"	TD120E	"	12E
"	TD120F	"	12F
"	TD120FA	"	2FA
"	TD120FB	"	2FB
"	TD120FC	"	2FC
"	TD120G	"	12G
"	TD120GA	"	2GA
"	TD101G	"	0A1
"	TD101GA	"	0A2
"	TD101GB	"	0A3
"	TD101F	"	0A4
"	TD101FA	"	0A5
"	TD121G	"	2A1
"	TD121GD	"	2A2
"	TD121F	"	2A3
"	TD121FD	"	2A4
"	TD121FA	"	2A5
"	TD121FB	"	2A6
"	TD121FC	"	2A7
"	TD121FE	"	2A8
"	TD121FF	"	2A9
"	TD121FG	"	2B1

TABLE 7

PLANT OF ASSEMBLY	CODE
VOLVO TRUCK CORPORATION	A
VOLVO EUROPA TRUCK NV	B
VOLVO GREAT BRITAIN LTD	C
VOLVO AUSTRALIA PTY LTD	D
VOLVO DO BRASIL	E
ISOMA LDA, PORTUGAL	F
VOLVO DEL PERU S A	G
ISAIDA S A, MOROCCO	H
ISARAKIS BROTHERS S A, GREECE	J
MARSHALLS (EAST AFRICA) LTD, KENYA	K
IV.A.S.A.(VEHICULOS S A), URUGUAY	L
IV.S.A. MOTOR DISTRIBUTORS (PTY) LTD, SOUTH AFRICA	M
IAUTO COMERCIAL LDA, MOCAMBIQUE	N
IZAMYAD CO LTD. TEHERAN IRAN	P
VOLVO WHITE TRUCK CORP, USA	U
ITALLERES GAGO S A, VALENCIA VENEZUELA	V
IP.T. ISMAC JI. ANCOL VIII/2 INDONESIA	W

7