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Robert H. Munson
Director
Automotive Safety Office
Environmental and Safety
Engineering Staff

Ford Motor Company
The American Road
Dearborn, Michigan 48121

May 11, 1988

ORIGINAL
17 pgs

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

Attention: VIN Coordinator

Re: 1989 Vehicle Identification Number Codes -
Amendments

Pursuant to the requirements set forth in Part 565 and Section 571.115 of Title 49 of the Code of Federal Regulations, Vehicle Identification Number (VIN), Ford Motor Company is submitting 1989 model VIN code information covering 1989 model passenger cars and trucks to be manufactured or sold by Ford.

The attached coding information - pages 1 through 14 - includes coding for early introduction vehicles reported to the Administrator on February 26, 1988.

The format of the VIN coding consists of alpha-numeric characters grouped according to the requirements and limitations set forth in the amended standard. Page one of the Attachment lists Ford Motor Company World Manufacturer Identifier (WMI) three-digit codes. The Society of Automotive Engineers has previously concurred in the assignments of all of the WMI codes listed on page one of the Attachment.

Page two of the Attachment lists the codes for Ford VIN position no. 4: restraint system type codes for passenger cars; brake system and GVWR class codes for trucks and MPV's, and brake system codes for buses and incomplete vehicles. Page two also indicates VIN position no. 5 designation identifiers ("P", "M" and "T") for all Ford passenger cars.

Pages three, four and five of the Attachment set forth VIN codes for passenger cars: line, series, and body type (Ford VIN position nos. 6 and 7). Also provided on pages three, four and five is additional vehicle information that describes, by line, series, and body type, available interior/exterior optional regular production (RPO) trim packages which include the listed vehicle exterior nameplate identifications. Passenger car "body codes" issued by the Ford Body and Chassis Product Engineering Office, which are unique within each car line for a given body type, e.g., a two-door sedan, are also listed for your information.

Pages six, seven and eight of the Attachment list VIN codes that describe line, series, chassis, cab type, or body type for trucks, MPV's, buses, and incomplete vehicles (Ford VIN position nos. 5, 6 and 7). Also provided on these pages is additional vehicle information that describes, by line, series, and cab or body type, available interior/exterior RPO trim packages which include the listed vehicle exterior nameplate identification. Because of the almost unlimited number of different special order vehicles potentially available to truck, MPV, bus or incomplete vehicle purchasers, and due to a lack of specific information about such special order vehicles until such orders are approved by Ford, special order and basic (stripped) chassis vehicles will be coded with the appropriate VIN position 5, 6 and 7 series codes listed on pages six, seven and eight.

Page nine of the Attachment lists VIN codes for Ford-installed engines (Ford VIN position no. 8) by engine displacement, number of cylinders, fuel type, engine manufacturer name, and also makes reference to net brake horsepower ratings and gross horsepower ranges. The engines are segmented into three groupings which are independently coded as follows: "Passenger Car", for those engines installed on passenger car vehicles; "Light Truck/MPV", for those engines installed on trucks and buses with Gross Vehicle Weight Rating (GVWR's) of 11,000 pounds or less, and multipurpose passenger vehicles; "Medium/Heavy Truck", for those engines installed on trucks and buses with GVWR's in excess of 11,000 pounds. Each of the above three engine groupings, of course, also applies to incomplete vehicles. We have been informed by the Ford Vehicle Engineering Offices that, regarding listed "Passenger Car" and "Light Truck/MPV" engines (79 CID through 460 CID), net brake horsepower data not shown at this time will be available after commencement of 1989 model production and will be provided to the Administration as soon as these data become available. Gross horsepower data are provided for each "Medium/Heavy Truck" engine along with diesel engine model numbers. A "0" (zero) engine code is shown on page nine of the Attachment to denote a unit (glider) built without an engine.

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Page ten of the Attachment reiterates VIN information relating to the "check digit" (Ford VIN position no. 9) and vehicle model year (Ford VIN position no. 10) as set forth in Part 565 and Section 571.115.

Page eleven of the Attachment lists VIN codes for the Ford vehicle manufacturing plants (Ford VIN position no. 11). Ford VIN position numbers 12 through 17 are utilized for vehicle alpha-numeric identifiers which are sequentially assigned by Ford vehicle assembly plants.

Page twelve of the Attachment presents the VIN codes (in addition to the WMI coding information given on page one of the Attachment) used to identify the 1989 model "Cargo" incomplete vehicle chassis cabs manufactured by Ford Brasil, S.A., and imported into the United States by Ford.

Pages thirteen and fourteen of the Attachment are included herein for informational purposes only. 1989 model Laser and Courier VIN coding information (in addition to the WMI coding information given on page one of the Attachment), as related to Ford by Mazda Motor Corporation, Japan, the manufacturer, is presented. Mazda, of course, is responsible for transmitting the required Laser and Courier VIN information to the Administration.

If there are any questions regarding this matter, please advise.

Very truly yours,



f R. H. Munson

Attachment

1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

I.

- World Manufacturer Identifiers (WMI) -
(VIN Positions 1, 2, and 3)

VIN CODE	Vehicle Manufacturer	Make	Type
1 F A	Ford Motor Company, USA	Ford	Passenger Car
1 F M	Ford Motor Company, USA	Ford	MPV <u>a/</u>
1 F T	Ford Motor Company, USA	Ford	Truck (Complete Vehicle)
1 F D	Ford Motor Company, USA	Ford	Incomplete Vehicle
1 F C	Ford Motor Company, USA	Ford	Basic (Stripped) Chassis
1 F B	Ford Motor Company, USA	Ford	Bus
1 F F	Ford Motor Company, USA	Ford	Motor Vehicle Equipment Without Engine/Powertrain (Glider)
1 M E	Ford Motor Company, USA	Mercury	Passenger Car
1 M H	Ford Motor Company, USA	Mercury	Incomplete Vehicle
1 L N	Ford Motor Company, USA	Lincoln	Passenger Car
1 L J	Ford Motor Company, USA	Lincoln	Incomplete Vehicle
1 Z V	Mazda Motor Manufacturing (USA) Corp.	Ford	Passenger Car
2 F A	Ford Motor Company of Canada, Ltd.	Ford	Passenger Car
2 F M	Ford Motor Company of Canada, Ltd.	Ford	MPV <u>a/</u>
2 F T	Ford Motor Company of Canada, Ltd.	Ford	Truck (Complete Vehicle)
2 F D	Ford Motor Company of Canada, Ltd.	Ford	Incomplete Vehicle
2 F C	Ford Motor Company of Canada, Ltd.	Ford	Basic (Stripped) Chassis
2 F B	Ford Motor Company of Canada, Ltd.	Ford	Bus
2 F F	Ford Motor Company of Canada, Ltd.	Ford	Motor Vehicle Equipment Without Engine/Powertrain (Glider)
2 M E	Ford Motor Company of Canada, Ltd.	Mercury	Passenger Car
2 M H	Ford Motor Company of Canada, Ltd.	Mercury	Incomplete Vehicle
3 F C	Ford Motor Company S. A. de C. V. (Mexico)	Ford	Basic (Stripped) Chassis
3 M A	Ford Motor Company S. A. de C. V. (Mexico)	Mercury	Passenger Car
6 M P	Ford Motor Company of Australia, Ltd.	Mercury	Passenger Car (Imported Capri)
9 B <u>Fb/</u>	Ford Brasil, S. A.	Ford	Incomplete Vehicle (Truck) (Imported Cargo)
K N J	Kia Motors Inc., Korea	Ford	Passenger Car (Imported Festiva)
L F <u>Ac/</u>	Ford Lio Ho Motor Company (Taiwan), Ltd.	Mercury	Passenger Car (Imported Mercury Tracer)
W F <u>1d/</u>	Ford-Werke, A.G., West Germany	Merkur	Passenger Car (Imported XR4Ti, Scorpio)
J C <u>1e/</u>	Mazda Motor Corporation, Japan	Ford	Passenger Car (Imported Laser)
J C <u>2f/</u>	Mazda Motor Corporation, Japan	Ford	Truck (Complete Vehicle) (Imported Courier)

a/ "MPV" means Multipurpose Passenger Vehicle.b/ Additional VIN element coding for the imported Cargo is listed on Page 12.c/ Additional VIN element coding for the imported Mercury Tracer (for sale only in Canada is listed on page 4.d/ Additional VIN element coding for the imported Merkur XR4Ti and Scorpio is listed on Page 5.e/ Additional VIN element coding for the imported Laser (not for sale in the 50 states) is listed on Page 13.f/ Additional VIN element coding for the imported Courier (not for sale in the 50 states) is listed on Page 14.

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1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

IIa. - Restraint System Type for Passenger Cars Only -
(VIN Position 4)

VIN Code	Passenger Car Identifiers
B	Active Belts (all designated seating positions)
P	Passive Belts (front)/Active Belts (rear)
C	Active Belts (all designated seating positions) plus Driver Air Bag
L	Active Belts (all designated seating positions with 3-point belts in all outboard positions) plus Driver and Passenger Air Bags

IIb. - Brake System and GVWR Class for Trucks and MPV's -
- Brake System (only) for Buses and Incomplete Vehicles -
(VIN Position 4)

BRAKE SYSTEM	GVWR CLASS	GVWR RANGE	VIN CODE
Hydraulic	Class A:	Not greater than 3,000 pounds	A
Hydraulic	Class B:	3,001-4,000 pounds	B
Hydraulic	Class C:	4,001-5,000 pounds	C
Hydraulic	Class D:	5,001-6,000 pounds	D
Hydraulic	Class E:	6,001-7,000 pounds	E
Hydraulic	Class F:	7,001-8,000 pounds	F
Hydraulic	Class G:	8,001-8,500 pounds	G
Hydraulic	Class G:	8,501-9,000 pounds	H
Hydraulic	Class H:	9,001-10,000 pounds	J
Hydraulic	Class 3:	10,001-14,000 pounds	K
Hydraulic	Class 4:	14,001-16,000 pounds	L
Hydraulic	Class 5:	16,001-19,500 pounds	M
Hydraulic	Class 6:	19,501-26,000 pounds	N
Hydraulic	Class 7:	26,001-33,000 pounds	P
Hydraulic	Class 8:	33,001-55,000 pounds	R
		55,001 pounds and over	S
Air	Class 3:	10,001-14,000 pounds	T
Air	Class 4:	14,001-16,000 pounds	U
Air	Class 5:	16,001-19,500 pounds	V
Air	Class 6:	19,501-26,000 pounds	W
Air	Class 7:	26,001-33,000 pounds	X
Air	Class 8:	33,001-55,000 pounds	Y
		55,001 pounds and over	Z

NOTE:
GVWR class as shown is not applicable to buses and incomplete vehicles.

III. Ford Passenger Car Identifiers
(VIN Position 5)

VIN Code	DESIGNATION
P	"Ford" Make
M	"Lincoln" or "Mercury" Make
T	All passenger cars imported from outside North America or non-Ford built passenger cars marketed by Ford in North America

1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

IV. - Line, Series, Body Type for Passenger Cars -
(VIN Positions 6 and 7)

<u>VIN CODE</u>	<u>Car Line</u>	<u>Series</u>	<u>Additional Optional Exterior Nameplates</u>	<u>Body Type</u>	<u>Body Code</u>
MAKE - FORD					
06	Festiva	L	Plus	2-Dr. Sedan Hatchback	---
07	Festiva	LX		2-Dr. Sedan Hatchback	---
20	Probe	GL		3-Dr. Sedan Hatchback	---
21	Probe	LX		3-Dr. Sedan Hatchback	---
22	Probe	GT		3-Dr. Sedan Hatchback	---
30	Tempo	L (Canada Only)		2-Dr. Sedan	66D
31	Tempo	GL		2-Dr. Sedan	66D
33	Tempo	GLS		2-Dr. Sedan	66D
34	Tempo	All Wheel Drive (Canada Only)		2-Dr. Sedan	66D
35	Tempo	L (Canada Only)		4-Dr. Sedan	54D
36	Tempo	GL		4-Dr. Sedan	54D
37	Tempo	LX		4-Dr. Sedan	54D
38	Tempo	GLS		4-Dr. Sedan	54D
39	Tempo	All Wheel Drive		4-Dr. Sedan	54D
40	Mustang	LX	5.0L Sport	2-Dr. Sedan	66B
41	Mustang	LX	5.0L Sport	2-Dr. Sedan Hatchback	61B
42	Mustang	GT		2-Dr. Sedan Hatchback	61B
44	Mustang	LX	5.0L Sport	2-Dr. Sedan Convertible	66B
45	Mustang	GT		2-Dr. Sedan Convertible	66B
50	Taurus	L		4-Dr. Sedan	54D
52	Taurus	GL		4-Dr. Sedan	54D
53	Taurus	LX		4-Dr. Sedan	54D
54	Taurus	SHO		4-Dr. Sedan	54D
55	Taurus	L		4-Dr. Station Wagon	74D
57	Taurus	GL		4-Dr. Station Wagon	74D
58	Taurus	LX		4-Dr. Station Wagon	74D
60	Thunderbird	Standard		2-Dr. Sedan	63D
62	Thunderbird	LX		2-Dr. Sedan	63D
64	Thunderbird	Super Coupe		2-Dr. Sedan	63D
72	Ford	LTD Crown Victoria S		4-Dr. Sedan	54K
73	Ford	LTD Crown Victoria		4-Dr. Sedan	54K
74	Ford	LTD Crown Victoria LX		4-Dr. Sedan	54K
76	Ford	LTD Crown Victoria		4-Dr. Station Wagon	74K
77	Ford	LTD Crown Victoria LX		4-Dr. Station Wagon	74K
78	Ford	LTD Country Squire		4-Dr. Station Wagon	74K
79	Ford	LTD Country Squire LX		4-Dr. Station Wagon	74K
90	Escort	Pony		2-Dr. Sedan Hatchback	61D
91	Escort	LX		2-Dr. Sedan Hatchback	61D
93	Escort	GT		2-Dr. Sedan Hatchback	61D
95	Escort	LX		4-Dr. Sedan Hatchback	58D
98	Escort	LX		4-Dr. Station Wagon	74D

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1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

IV. (Cont'd) - Line, Series, Body Type for Passenger Cars -
(VIN Positions 6 and 7)

VIN CODE	Car Line	Series	Additional Optional Exterior Nameplates	Body Type	Body Code
MAKE - MERCURY					
01	Capri	Base		2-Dr. Sedan Convertible	
03	Capri	XR2		2-Dr. Sedan Convertible	
10	Tracer a/	L		2-Dr. Sedan Hatchback	61D
11	Tracer b/	None Designated		2-Dr. Sedan Hatchback	61D
11	Tracer a/	LS		2-Dr. Sedan Hatchback	61D
12	Tracer b/	None Designated		4-Dr. Sedan Hatchback	58D
12	Tracer a/	LS		4-Dr. Sedan Hatchback	58D
13	Tracer b/	None Designated		4-Dr. Station Wagon	74D
13	Tracer c/	LS		4-Dr. Station Wagon	74D
15	Tracer a/	GS		2-Dr. Sedan Hatchback	61D
16	Tracer a/	GS		4-Dr. Sedan Hatchback	58D
30	Topaz	L (Canada Only)		2-Dr. Sedan	66D
31	Topaz	GS	All Wheel Drive	2-Dr. Sedan	66D
33	Topaz	XR5	All Wheel Drive	2-Dr. Sedan	66D
35	Topaz	L (Canada Only)		4-Dr. Sedan	54D
36	Topaz	GS	All Wheel Drive	4-Dr. Sedan	54D
37	Topaz	LS	All Wheel Drive	4-Dr. Sedan	54D
38	Topaz	LTS	All Wheel Drive	4-Dr. Sedan	54D
50	Sable	GS		4-Dr. Sedan	54D
53	Sable	LS		4-Dr. Sedan	54D
55	Sable	GS		4-Dr. Station Wagon	74D
58	Sable	LS		4-Dr. Station Wagon	74D
60	Cougar	LS		2-Dr. Sedan	66D
62	Cougar	XR-7		2-Dr. Sedan	66D
74	Grand Marquis	GS		4-Dr. Sedan	54K
75	Grand Marquis	LS	50th Anniv. Ed.	4-Dr. Sedan	54K
78	Grand Marquis	Colony Park GS		4-Dr. Station Wagon	74K
79	Grand Marquis	Colony Park LS		4-Dr. Station Wagon	74K

1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

IV. (Cont'd) - Line, Series, Body Type for Passenger Cars -
(VIN Positions 6 and 7)

<u>VIN</u> <u>CODE</u>	<u>Car Line</u>	<u>Series</u>	<u>Additional Optional Exterior Nameplates</u>	<u>Body Type</u>	<u>Body Code</u>
MAKE - MERKUR					
80	XR4Ti	None Designated		2-Dr. Sedan Hatchback	---
81d/	Scorpio	None Designated		4-Dr. Sedan Hatchback	---
MAKE - LINCOLN					
81e/	Town Car	(Base)		4-Dr. Sedan	54D
82	Town Car	Signature		4-Dr. Sedan	54D
83	Town Car	Cartier		4-Dr. Sedan	54D
84	Town Car	Gucci		4-Dr. Sedan	54D
92	Mark VII	Blass		2-Dr. Coupe	63D
93	Mark VII	ISC		2-Dr. Coupe	63D
97	Continental	(Base)		4-Dr. Sedan	54D
98	Continental	Signature		4-Dr. Sedan	54D

Footnotes (regarding duplicate VIN codes):

- a/ Imported Mercury Tracer manufactured in Taiwan for sale only in Canada. (VIN codes 10, 11, 12, 15 & 16).
- b/ Mercury Tracer manufactured in Hermosillo, Mexico for sale only in the U.S. (VIN codes 11, 12 & 13).
- c/ Mercury Tracer manufactured in Hermosillo, Mexico for sale only in Canada (VIN code 13).
- d/ Imported Merkur Scorpio manufactured in Cologne, West Germany for sale in the U.S. and Canada (VIN code 81).
- e/ Lincoln Town Car manufactured in Wixom, Michigan for sale in the U.S. and Canada (VIN code 81).

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V. 1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

Line, Series, Chassis, Cab Type or Body Type for Trucks, Multipurpose Passenger Vehicles (MPV's), Buses, and Incomplete Vehicles (IV's) with GVW Ratings of 4990 Kilograms (11,000 Pounds) or less: (VIN Positions 5, 6, and 7)

MAKE - FORD

<u>VIN CODE</u>	<u>Line</u>	<u>Series</u>	<u>Chassis Type</u>	<u>Cab or Body Type</u>	<u>Vehicle Type</u>
U15	Bronco	Custom	4x4	Bronco	MPV
U14	Bronco II	XL	4x4	Bronco II	MPV
U12	Bronco II	XL	4x2	Bronco II	MPV

Memo: One of the following optional exterior nameplates (indicating different trim or equipment levels) may also be affixed to the vehicle in addition to the Bronco or Bronco II nameplate:

	<u>. SPORT</u>	<u>. XLIT</u>	<u>. Eddie Bauer</u>	
Regular Cab				
R10 /	R14	Ranger (Base)	4x2	Pickup-Regular Cab/Super Cab Truck
R11 /	R15	Ranger (Base)	4x4	Pickup-Regular Cab/Super Cab Truck

Memo: One of the following optional exterior nameplates (indicating different trim or equipment levels) may also be affixed to the vehicle in addition to the Ranger nameplate:

	<u>.S</u>	<u>.XLIT</u>	<u>.CUSTOM</u>	<u>.STX</u>	<u>RANGER GT</u>	
Super Cab (X)						
Regular or Cab (F) Crew Cab (W)						
F14 /	X14	F-Series	F150	4x4	Pickup - Regular Cab/Super Cab	Truck
F15 /	X15	F-Series	F150	4x2	Pickup - Regular Cab/Super Cab	Truck
F25 /	X25	F-Series	F250	4x2	Pickup - Regular Cab/Super Cab	Truck
F26 /	X26	F-Series	F250	4x4	Pickup - Regular Cab/Super Cab	Truck
F35 /	X35/W35	F-Series	F350	4x2	Pickup - Regular Cab/Super Cab/ Crew Cab	Truck
F37		F-Series	F350	4x2	Regular Cab (Chassis Cab)	IV
F36 /	W36	F-Series	F350	4x4	Pickup - Regular Cab/Crew Cab	Truck
F38	-	F-Series	F350	4x4	Regular Cab (Chassis Cab)	IV
F47	-	F-Series	F-Super Duty	4x2	Regular Cab (Chassis Cab)	IV

Memo: One of the following optional exterior nameplates (indicating different trim or equipment levels) may also be affixed to the vehicle in addition to the F-Series nameplate.

- . Custom
- . XL (excluding Crew Cab)
- . XLIT Lariat (excluding Chassis Cab)

Note: Special Order (DSO) units will be coded with the appropriate series VIN codes listed above.

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V. (Cont'd) 1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

Line, Series, Chassis, Cab Type or Body Type for Trucks, Multipurpose Passenger Vehicles (MPV's), Buses, and Incomplete Vehicles (IV's) with GVW Ratings of 4990 Kilograms (11,000 Pounds) or less: (VIN Positions 5, 6, and 7)

MAKE - FORD (Cont'd)

<u>VIN CODE</u>		<u>Line</u>	<u>Series</u>	<u>Chassis Type</u>	<u>Cab or Body Type</u>	<u>Vehicle Type</u>
<u>Standard</u>	<u>Extended</u>					
<u>Length</u>	<u>Length</u>					
A11	A31	Aerostar	(Base)	4x2	Wagon	MPV
A14	A34	Aerostar	(Base)	4x2	Cargo Van	Truck or IV
A15	A35	Aerostar	(Base)	4x2	Window Van	Truck or IV

Memo: One of the following optional exterior nameplates (indicating different trim levels) may also be affixed to the vehicle in addition to the Aerostar nameplate:

<u>. XL (Excluding Vans)</u>		<u>. XLIT (Excluding Vans)</u>		<u>. Eddie Bauer (Excluding Vans)</u>	
<u>Club</u>	<u>Super</u>				
<u>Wagon</u>	<u>Wagon</u>				
E11	-	Club Wagon XL	E150	4x2	Club Wagon
E21	-	Club Wagon XL	E250	4x2	Club Wagon
-	S31	Club Wagon XL	E350	4x2	Super Club Wagon
					MPV
					MPV or Bus ^{a/}
					MPV or Bus ^{a/}

Memo: The following optional exterior nameplate (indicating a different trim level) may also be affixed to the vehicle instead of the Club Wagon XL nameplate:

<u>. XLIT</u>		<u>a/ Excludes School Bus</u>			
<u>Regular</u>	<u>Super</u>				
<u>Van</u>	<u>Van</u>				
E14	/ S14	Econoline	E150	4x2	Cargo Van - Regular Van/Super Van
E24	/ S24	Econoline	E250	4x2	Cargo Van - Regular Van/Super Van
E34	/ S34	Econoline	E350	4x2	Cargo Van - Regular Van/Super Van
					Truck or IV
					Truck or IV
					Truck or IV
<u>Other</u>					
E37	-	Econoline	E350	4x2	Commercial Cutaway
E30	-	Econoline	E350	4x2	RV Cutaway
E39	-	Econoline ^{a/}	E350	4x2	Commercial Basic (Stripped) Chassis
E33	-	Econoline ^{a/}	E350	4x2	RV Basic (Stripped) Chassis
					IV
					IV
					IV
					IV

Memo: The following optional exterior nameplate (indicating a different trim level) may also be affixed to the vehicle in addition to the Econoline nameplate:

. XL (excludes Commercial Cutaway and Commercial Stripped Chassis)

^{a/} All 1989 model Commercial and RV Basic (Stripped) Chassis incomplete vehicles are designated by a "1FC" or "2FC" World Manufacturer Identifier (WMI) code. The RV Basic (Stripped) Chassis is available only on a Special Order basis.

Note: Special Order (DSO) units will be coded with the appropriate series VIN codes listed above.

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VI.

1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION
Line, Series, Chassis, Cab Type
Ford Medium and Heavy Incomplete Vehicles, Trucks
(VIN Positions 5, 6, and 7)

<u>VIN CODE/Cab Type</u>	<u>Series/Description</u>	<u>VIN CODE/Cab Type</u>	<u>Series/Description</u>
	<u>B, F Series - Gas or Optional Diesel</u>		<u>L Series - Diesel</u>
<u>COWL</u>		<u>CONVENTIONAL</u>	
B60	B600	K80	L8000
J65	B600 w/Ford Diesel Option	K82	L8000 w/Ford Engine
B70	B700	K90	L9000
J75	B700 w/Ford Diesel Option	V90	LL9000
F61	F600	S80	LS8000
K65	F600 w/Ford Diesel Option	S82	LS8000 w/Ford Engine
F71	F700	S90	LS9000
K75	F700 w/Ford Diesel Option	U80 (Tandem)	LT8000
F83	F800	U82 (Tandem)	LT8000 w/Ford Engine
K85	F800 w/Ford Diesel Option	U90 (Tandem)	LT9000
		Y80 (Tandem Set Back)	LTS8000
		Y82 (Tandem Set Back)	LTS8000 w/Ford Engine
		Y90 (Tandem Set Back)	LTS9000
		A90 (Tandem)	LTL9000
		S95	LA9000 (AeroMax L-9000)
		Y95 (Tandem Set Back)	LTA9000 (AeroMax L-9000)
		<u>SHORT CONVENTIONAL</u>	<u>LN Series - Diesel</u>
		R72	LN7000 w/Ford Engine
		R80	LN8000
		R82	LN8000 w/Ford Engine
		R90	LN9000
		W80 (Tandem)	LNT8000
		W82 (Tandem)	LNT8000 w/Ford Engine
		W90 (Tandem)	LNT9000
	<u>F Series - Gas or Optional Diesel</u>		<u>C Series - Diesel</u>
<u>CONVENTIONAL</u>		<u>LOW TILT CAB</u>	
W36	F-350 4x4 Crew Cab	D84	C800
F47	F-Super Duty 4x2	D80	C8000
F53	Recreational Vehicle (Motorhome Stripped Chassis)	H80 (Tandem)	CT8000
F59	Commercial Vehicle (Commercial Stripped Chassis)		
F60	F600		
K64	F600 w/Ford Diesel Option		
F70	F700		
K74	F700 w/Ford Diesel Option		
F77	F700 4x4		
K77	F700 4x4 w/Ford Diesel Option		
F82	F800		
K84	F800 w/Ford Diesel Option		
G80 (Tandem)	FT800		
L90 (Tandem)	FT900 w/Ford Diesel Option		
	<u>Add. Opt. Ext. Nameplate</u>		<u>Add. Opt. Ext. Nameplate</u>
	- Custom Cab		- Custom Cab
			<u>CL9000, CLT9000 Series (Diesel)</u>
			<u>CL9000 CLT9000</u>
			<u>Cab Size Cab Size Sleeper Rear Axle</u>
			<u>Single Tandem</u>
		<u>HIGH TILT CAB</u>	
		Z96	64 inch X
		X96	64 inch X
		Z98	88 inch X X
		X98	88 inch X X
		Z91	110 inch X X
		X91	110 inch X X
			<u>Add. Opt. Ext. Nameplate</u>
			- Air Ride Cab

NOTE: Basic (Stripped) Chassis and other Special Order (DSO) units will be coded with the appropriate series VIN codes listed above.

VII.

1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

Engine Type - Displacement, Cylinders, Fuel Type,
Manufacturer, and Horsepower (H.P.) Ratings
(VIN Position 8)

Engine types are divided into three distinct groups as shown below: Passenger Car, Light Truck/MPV, and Medium/Heavy Truck. Each group is coded independently of the other two. This arrangement provides 99 separate cycles (33 in each group: the letters A through Z, and the numerals 0 through 9) and allows for the availability of additional codes for future engine applications.

VIN CODE	Displacement ^{a/} Litre	CID	Cylinders	Fuel	Manufacturer	Memo: Net Brake H.P.
PASSENGER CAR						
K	1.3 2V	79	I-4	Gasoline	Mazda	TBD
H	1.3 EFI	79	I-4	Gasoline	Mazda	TBD
5	1.6 EFI	98	I-4	Gasoline	Mazda	TBD
6	1.6 EFI-TC	98	I-4 (Turbo)	Gasoline	Mazda	TBD
9	1.9 CFI	116	I-4	Gasoline	Ford	TBD
J	1.9 EFI	116	I-4	Gasoline	Ford	TBD
C	2.2 EFib/	133	I-4	Gasoline	Mazda	110
L	2.2 EFI-TC/IC	133	I-4 (Turbo/I)	Gasoline	Mazda	145
A	2.3 OHC EFI	140	I-4	Gasoline	Ford	TBD
W	2.3 OHC EFI-TC	140	I-4 (Turbo)	Gasoline	Ford	TBD
X	2.3 HSC EFI	140	I-4	Gasoline	Ford	TBD
S	2.3 HSO EFI	140	I-4	Gasoline	Ford	TBD
D	2.5 CFI	153	I-4	Gasoline	Ford	TBD
V	2.9 EFI	177	V-6	Gasoline	Ford	TBD
U	3.0 EFI	182	V-6	Gasoline	Ford	TBD
Y	3.0 EFI SHO	182	V-6	Gasoline	Yamaha	TBD
4	3.8 EFI	232	V-6	Gasoline	Ford	TBD
C	3.8 EFI SC	232	V-6	Gasoline	Ford	TBD
E	5.0 EFI HO+S/	302	V-8	Gasoline	Ford	TBD
F	5.0 EFI	302	V-8	Gasoline	Ford	TBD
G	5.8 HO VV	351	V-8	Gasoline	Ford	TBD
LIGHT TRUCK/MPV						
A	2.3 EFI	140	I-4	Gasoline	Ford	TBD
T	2.9 EFI	177	V-6	Gasoline	Ford	TBD
U	3.0 EFI	182	V-6	Gasoline	Ford	TBD
V	3.4 D	210	I-6	Diesel	Cummins	TBD
9	4.9 EFI G-LPG	300	I-6	Gasoline ^{d/}	Ford	TBD
Y	4.9 EFI	300	I-6	Gasoline	Ford	TBD
N	5.0 EFI	302	V-8	Gasoline	Ford	TBD
H	5.8 EFI	351	V-8	Gasoline	Ford	TBD
M	7.3 D	445	V-8	Diesel	Navistar	160-180
G	7.5 EFI	460	V-8	Gasoline	Ford	215-235
MEDIUM/HEAVY TRUCK						
<u>Gasoline/LPG</u>						Memo: Gross H.P. Range
H	6.1 2V	370	V-8	Gasoline	Ford	164-207
7	6.1 LPG	370	V-8	LPG	Ford	164-207
K	7.0 4V	429	V-8	Gasoline	Ford	213-234
8	7.0 LPG	429	V-8	LPG	Ford	213-234
G	7.5 EFI	460	V-8	Gasoline	Ford	TBD
<u>Diesel</u>						<u>Basic Model No.</u>
P	6.6	403	I-6	Turbo	Ford	160-170
M	7.3	445	V-8	7.3L	Navistar	TBD
A	7.8	474	I-6	Turbo	Ford	185-240
N	8.2	500	V-8	8.2L	Detroit Diesel	130-245
L	10.0	611	I-6	L-10	Cummins	240-300
U	10.4	636	V-8	3208	Caterpillar	165-250
W	14.0	855	I-6	NTC	Cummins	300-444
X	14.6	893	I-6	3406	Caterpillar	310-425
T	10.5	638	I-6	3306B	Caterpillar	285-300
S	10.0	611	I-6	3176	Caterpillar	250-325

DELETE ENGINE (applicable to all three groups above)

U (Zero) DSO Glider - Delete Engine on motor vehicle equipment only.

- a/ "HSC" means high swirl combustion. "LPG" means liquefied petroleum gas. "TC/IC" means turbocharged and intercooled. "TC" means turbocharged. "SHO" means super high output. "SC" means supercharged. "HSO" means high specific output.
- b/ 2.2 EFI engine available only in Mazda-built Ford Probe. Unique Mazda WMI (VIN Positions 1, 2, and 3) coded 1ZV can be used to distinguish this engine from the Ford-built 3.8 EFI SC engine which also uses VIN code "C".
- c/ Engine used only for Mustang and Mark VII and differs from passenger car "F" code engine.
- d/ Engine suitable for LPG conversion. Leaves Ford Assembly Plant as a gasoline engine.

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1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

VII.

VIN Check Digit
(VIN Position 9)

See Section 4.3, FMVSS No. 115 and Paragraph 565.4(c) of Part 565. (The check digit must have a value of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 or X.)

VIII.

Vehicle Model Year
(VIN Position 10)

<u>VIN</u> <u>Code</u>	<u>Year</u>
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

IX. 1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

- Plant of Manufacture -
(VIN Position 11)

The plant of manufacture VIN code is designated as follows:

VIN CODE	Vehicle Assembly Plant Name: Location	Plant Production		
		Passenger Cars	Light Trucks/ MPV's	Medium/ Heavy Trucks
A	Atlanta: Hapeville, Georgia	X		
B	Oakville: Oakville, Ontario	X		
C	Ontario Truck: Oakville, Ontario		X	
E	Niehl: Cologne, West Germany	X		
F	Dearborn: Dearborn, Michigan	X		
G	Chicago: Chicago, Illinois	X		
H	Lorain: Lorain, Ohio	X	X	
J	IMMSA: Monterrey, Mexico			X
K	Kansas City: Claycomo, Missouri	X	X	
L	Michigan Truck: Wayne, Michigan		X	
M	Karmann: Rheine, West Germany	X		
N	Norfolk: Norfolk, Virginia		X	
P	Twin Cities: St. Paul, Minnesota		X	
R	Hermosillo: Mexico	X		
T	Edison: Edison, New Jersey	X		
U	Louisville: Louisville, Kentucky		X	
V	Kentucky Truck: Jefferson County, Kentucky			X
W	Wayne: Wayne, Michigan	X		
X	St. Thomas: Talbotville, Ontario	X		
Y	Wixom: Wixom, Michigan	X		
Z	St. Louis: Hazelwood, Missouri		X	
2	Chung Li: Taiwan	X		
5	Mazda-Flat Rock: Flat Rock, Michigan	X		
6	Mazda-Kia: Korea	X		
8	Broadmeadows: Campbellfield, Australia	X		

X. - Sequential Vehicle Identifiers -
(VIN Positions 12 through 17)

Unique six digit numeric sequence codes are assigned to each passenger car by the vehicle assembly plant of manufacture. Sequence codes for "Ford" make passenger cars may range from 100,001 through 599,999; sequence numbers for "Lincoln", "Mercury" and "Merkur" make passenger cars may range from 600,001 through 999,999. A six digit alphanumeric sequence code (first digit alpha, last five digits numeric) is assigned for trucks, MPV's, buses and incomplete vehicles.

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CARGO

1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

(VIN Positions 4 through 17)

. GVWR Class and Brake System (VIN Position 4):

<u>VIN CODE</u>	<u>GVWR Class</u>	<u>Brake System</u>
N	Class 6: 19,501-26,000 pounds	Hydraulic
P	Class 7: 26,001-33,000 pounds	Hydraulic
R	Class 8: 33,001-55,000 pounds	Hydraulic
W	Class 6: 19,501-26,000 pounds	Air
X	Class 7: 26,001-33,000 pounds	Air
Y	Class 8: 33,001-55,000 pounds	Air

. Line, Series, Chassis, Cab Type and Body Style (VIN Positions 5, 6, and 7):

<u>VIN CODE</u>	<u>Cargo Chassis Cab</u>
H60	CF6000
H70	CF7000
H81	CF8000
H85	CFT8000

. Engine Type (VIN Position 8):

<u>VIN CODE</u>	<u>Displacement</u> <u>Litre</u>	<u>CID</u>	<u>Cylinders</u>	<u>Fuel</u>	<u>Manufacturer</u>	<u>Memo:</u> <u>Net Brake</u> <u>Horsepower</u>
P	6.6	403	I-6	Turbo Diesel	Ford	160-185
A	7.8	474	I-6	Turbo Diesel	Ford	170-270

. VIN Check Digit (VIN Position 9):

See Section 4.3, FMVSS No. 115 and Paragraph 565.4(c) of Part 565. (The check digit must have a value of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, or X.)

. Vehicle Model Year (VIN Position 10):

<u>VIN CODE</u>	<u>Year</u>
K	1989

. Plant of Manufacture (VIN Position 11):

<u>VIN CODE</u>	<u>Plant</u>
D	Ipiranga, Brazil

. Production Sequence Number (VIN Positions 12 through 17):

Number is assigned sequentially (M00001-M99999).

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LASER

1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

(VIN Positions 4 through 17)

- . Line (VIN Positions 4 and 5):

<u>VIN CODE</u>	<u>Description</u>
BF	Laser

- . Series, Body Type (VIN Positions 6 and 7):

<u>VIN CODE</u>	<u>Series</u>	<u>Additional Optional Exterior Nameplates</u>	<u>Body Type</u>
22	Low	GL, Ghia	4-Door Sedan
23	Low	GL	3-Door Hatchback

- . Engine and Restraint System Type (VIN Position 8):

<u>VIN CODE</u>	<u>Engine Displacement Litre</u>	<u>CID</u>	<u>Cylinders</u>	<u>Fuel</u>	<u>Manufacturer</u>	<u>Memo: Net Brake Horsepower</u>
5	1.6	98	4	Gasoline	Mazda Motor Corp.	82 ± 8

and Active Belts (restraint system type)

- . VIN Check Digit (VIN Position 9):

See Section 4.3, FMVSS No. 115 and Paragraph 565.4(c) of Part 565. (The check digit must have a value of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, or X.)

- . Vehicle Model Year (VIN Position 10):

<u>VIN CODE</u>	<u>Year</u>
K	1989

- . Plant of Manufacture (VIN Position 11):

<u>VIN CODE</u>	<u>Plant Location</u>
0 (Zero)	Hiroshima, Japan

- . Production Sequence Number (VIN Positions 12 through 17):

Number is assigned sequentially (100001 - 999999).

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COURIER

1989 VEHICLE IDENTIFICATION NUMBER (VIN) ELEMENT CODING INFORMATION

(VIN Positions 4 through 17)

- . Line, Series, Chassis, Cab Type and Body Style (VIN Positions 4, 5, and 6):

<u>VIN CODE</u>	<u>Courier Pick-Up</u>
UF1	2760mm Wheelbase, 4x2 (Truck)
UA2	2760mm Wheelbase, 4x4 (Truck)

- . GVWR Class and Brake System (VIN Position 7):

<u>VIN CODE</u>	<u>GVWR Class</u>	<u>Brake System</u>
1	Class C: 4,001 - 5,000 pounds	Hydraulic ^{1/}
2	Class C: 4,001 - 5,000 pounds	Hydraulic ^{2/}

- . Engine Type (VIN Position 8):

<u>VIN CODE</u>	<u>Displacement</u> <u>Litre</u>	<u>CID</u>	<u>Cylinders</u>	<u>Fuel</u>	<u>Manufacturer</u>	<u>Memo:</u> <u>Net Brake</u> <u>Horsepower</u>
3	2.2	133	4	Gasoline	Mazda Motor Corp.	85 ± 8
2	2.6	156	4	Gasoline	Mitsubishi	106 ± 10

- . VIN Check Digit (VIN Position 9):

See Section 4.3, FMVSS No. 115 and Paragraph 565.4(c) of Part 565. (The check digit must have a value of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, or X.)

- . Vehicle Model Year (VIN Position 10):

<u>VIN CODE</u>	<u>Year</u>
K	1989

- . Plant of Manufacture (VIN Position 11):

<u>VIN CODE</u>	<u>Plant</u>
0 (Zero)	Hiroshima, Japan

- . Production Sequence Number (VIN Positions 12 through 17):

Number is assigned sequentially (500001-999999).

^{1/}Used with the 2.2L gasoline engine.
^{2/}Used with the 2.6L gasoline engine.

May 11, 1988

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