State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-280
Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1985 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks and medium-duty vehicles:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
FFM4.9T1HGG6	300	(4.9)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles":

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
4000-5999	0.50	9.0	1.0

The following are the certification emission values for the above engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
4000-5999	0.27	6.9	0.7

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 30th day of July, 1984.

K. D. Drachand, Chief
Mobile Source Division

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Ford Motor Company

Executive Order No.: A-10-280

Engine Family: FFM4.9T1HGG6

Evaporative Family: 5GM/5GQ

Engine CID (Liters): 4.9L

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
'V-Variable Venturi

Exhaust Emissions Control System

AIP-Air Injection-Pump
AIV-Air Injection-Valve
CL-Closed Loop
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst System
TOC-Trap Oxidizer Continual
TOP-Trap Oxidizer Periodical
TR-Thermal Reactor
TWC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
EFI-Electronic Fuel Injection
IC - Intercooler
MFI-Mechanical Fuel Injection
TC-Turbocharged

VEHICLE MODELS:

F-150 4x2
- Regular Cab (SWB/LWB)
- Super Cab (SWB/LWB)

F-150 4x4
- Regular Cab (SWB/LWB)
- Super Cab (LWB)

F-250 4x2
- Regular Cab (LWB)

F-250 4x4
- Regular Cab (LWB)

E-150 4x2
- Regular Van (SWB/LWB)
- Super Van (LWB)
- Club Wagon (LWB)

E-250 4x2
- Regular Van (LWB)
- Super Van (LWB)

BRONCO 4x4
- Regular Cab (SWB/LWB)

DRIVE SYSTEM: FRONT Engine/ REAR -Wheel Drive

Engine Family: F4.9TGG

Issue Date:	JUN 2 5 1984										
Revised:											

E.O. #A-10-280

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas __ Diesel

Manufacturer Ford Motor Company Page 2

Engine Family FFM4.9T1HGG6 Engine Code 4-52G-R00B

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L (300)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System 1V Part No.	EGR Valve Part No.	Label Ident. Part No
4-52G-R00B	F-150 4x2			E4EF-UA	E5TE-VA	E3TE-RA	CEL
	RCS	C5-054	3750				
	RCL		3875				
	RCS	C6-013	3875				
	RCL		4000				
	SCS		4250				
	SCL		4250				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -

Engine Family F4.9TGG

Issue Date:	JUN 2										
Revised:											

E.O. #A-10-280

198 5AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars x Light-Duty Trucks x Medium-Duty Vehicles x Gas __ Diesel

Manufacturer Ford Motor Company Page 3

Engine Family FFM4.9T1HGG6 Engine Code 4-52L-R00B

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L (300)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System 1V Part No.	EGR Valve Part No.	Label Ident. Part No.
4-52L-R00B	E-150 4x2			E4EF-YA	E5TE-VA	E3TE-EA	CEL
	RVS	C6-003	4250				
	RVL		4250				
	SVL		4500				
	CWL		5000				
	E-250 4x2						
	RVL	C6-003	4750				
	RVL		5000				
	SVL		5000				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -

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Engine Family F4.9TGG

Issue Date JUN 2

Revised

E.O. #A-10-280

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas __ Diesel

Manufacturer Ford Motor Company

Page 4

Engine Family FFM4.9T1HGG6

Engine Code 4-51R-R00B

ECS (Special Features) AIP/EGR/EGS/TWC

CID (Liter)-Type 4.9L (300)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. M/T	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System IV Part No.	EGR Valve Part No.	Label Ident. Part No.
4-51R-R00B				E4EF-NA	E5TE-VA	E3TE-BA	CEL
	F-150 4x4						
	RCS	M4	4250				
	RCL	(3.25)	4250				
	SCL		4750				
	RCS	M4	4250				
	RCL	(6.32)	4500				
	SCL		4750				
	RCS	M4	4250				
	RCL	(6.69)	4500				
	F-250 4x2						
	RCL	M3 (3.26)	4250				
	RCL	M4	4250				
	RCL	(6.32)	4750				
	RCL	M4 (6.69)	4250				
	F-250 4x4 RCL	M4 (6.69)	4750				
	BRONCO 4x4						
	RCS	M4	4250				
	RCL	(6.69)	4500				

Date of Issue -

Engine Family F4.9TGG

Issue Date:	JUN 28 1984										
Revised:											

E.O. #A-10-280

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas __ Diesel

Manufacturer Ford Motor Company Page 5

Engine Family FFM4.9T1HGG6 Engine Code 4-52R-R00B

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L (300)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System 1V Part No.	EGR Valve Part No.	Label Ident. Part No
4-52R-R00B	F-150 4x4 RCS RCL SCL	C6-013	4250 4500 4750	E4EF-UA	E5TE-VA	E4TE-CA	CEL
	F-250 4x2 RCL	C6-013	4250				
	F-250 4x4 RCL	C6-013	4750				
	BRONCO 4x4	C6-013	4750				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -

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Engine Family F4.9TGG

Issue Date	JUN 28 1984									
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E.O. #A-10-280

198 5AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas __ Diesel

Manufacturer Ford Motor Company

Page 6

Engine Family FFM4.9T1HGG6

Engine Code 4-51$-R02B

ECS (Special Features) AIP/EGR/EGS/TWC

CID (Liter)-Type 4.9L (300)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. M/T	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System 1V Part No.	EGR Valve Part No.	Label Ident. Part No
4-51$-R02B	F-150 4x2			E4EF-ACA	E5TE-UA	E4TE-EA	
	RCS	M3	3750				CEL
	RCL	(3.26)	3875				
	SCS		4250				
	SCL		4250				
	RCS	M4	3750				
	RCL	(3.25)	3875				
	SCS		4250				
	SCL		4250				
	RCS	M4	3875				
	RCL	(6.32)	4000				
	RCS	M4	3875				
	RCL	(6.69)	4000				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -

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Engine Family F4.9TGG

Issue Date:	JUN 28 1984
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E.O. #A-10-280

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas __ Diesel

Manufacturer Ford Motor Company Page 7

Engine Family FFM4.9T1HGG6 Engine Code 4-52$-R00B

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L (300)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System 1V Part No.	EGR Valve Part No.	Label Ident. Part No
4-52$-R00B	F-150 4x2			E4EF-ZA	E5TE-RA	E3TE-RA	CEL
	RCS	AOX-	3875				
	RCL	052	4000				
	SCS		4250				
	RCS	AOX-	3875				
	RCL	053	4000				
	SCL		4250				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -

Engine Family F4.9TGG

Issue Date:	JUN 28 1984										
Revised:											

E.O. #A-10-280

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas __ Diesel

Manufacturer Ford Motor Company Page 8

Engine Family FFM4.9T1HGG6 Engine Code 4-51T-R00B

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L (300)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. M/T	Equiv. Test Weight	Ign. System EEC-IV Part No.	Fuel System 1V Part No.	EGR Valve Part No.	Label Ident. Part No
4-51T-R00B	E-150 4x2			E4EF-VA	E5TE-TA	E3TE-EA	CEL
	RVS	M3	4250				
	RVL	(3.26)	4250				
	SVL		4500				
	RVS	M4	4250				
	RVL	(3.25)	4250				
	SVL		4500				
	CWL		5000				
	E-250 4x2						
	RVL	M3	4750				
	SVL	(3.26)	5000				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

*Add 10% to dyno test HP for air conditioning usage.

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Engine Family F4.9TGG

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1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas __ Diesel

Manufacturer Ford Motor Company

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Engine Family FFM4.9T1HGG6

Engine Code 4-52T-R00B

ECS (Special Features) AIP/EGR/EGS/TWC

CID (Liter)-Type 4.9L (300)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System 1V Part No.	EGR Valve Part No.	Label Ident. Part No
4-52T-R00B	E-150 4x2			E4EF-XA	E5TE-SA	E3TE-EA	CEL
	RVS	AOX-053	4250				
	RVL		4250				
	SVL		4500				
	CWL		5000				
	E-250 4x2						
	RVL	AOX-053	4750				
	SVL		5000				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -

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Engine Family F4.9TGG

Issue Date:	JUN [illegible]										
Revised:											

Section 8.13.01.00 1985 LIGHT-DUTY TRUCK DPA TABLE E.O.# A-10-280

Truckline	ETW Limit		Non A/C DPA	Non A/C CDT	A/C DPA	A/C CDT
Ranger 4x2	3125		11.4	13.46	12.5	12.48
Ranger 4x2	3250		11.7	13.87	12.9	12.88
Ranger 4x2 Chassis Cab	3625 @28 sq. ft.		15.2	11.47	16.6	10.68
Ranger 4x2 Chassis Cab	3875 @39 sq. ft.		18.1	10.98	19.5	10.33
Ranger 4x4	3375		11.8	12.98	13.0	12.12
Ranger 4x4	3625		12.2	13.49	13.4	12.52
Bronco II	3625		11.0	14.24	12.1	13.26
Bronco II	3750		11.5	14.24	12.6	13.35
F-150 4x2 1/	4000		13.2	13.24	14.5	12.41
F-150 4x2	4500		14.0	14.18	15.4	13.20
F-150 4x2	4750		15.2	15.42	16.6	14.35
F-250 4x2	5000	R	16.2	14.18	17.6	13.30
		B	18.0	12.77	19.4	12.04
F-150 4x4	5000	R	16.5	14.19	17.9	13.30
		B	18.6	12.23	20.0	11.59
F-250 4x4	5250	R	17.7	14.03	19.1	13.18
	5500	B	20.0	12.53	21.4	11.90
Bronco	5000	R	14.0	15.42	15.4	14.36
	5250	B	17.2	12.51	18.6	11.88
E-150	5250	R	15.2	15.38	16.6	14.35
E-250	5500	R	17.3	14.16	18.7	13.31
	6000	B	18.0	13.71	19.4	13.05

NOTES

B=Bias R=Radial tires (All values for radial tires except where noted)

1/ F-150 (4000 ETW, Radial Tires and 1" x 50" spoiler)

Engine Family F4.9TGG

Issue Date:	JUN 28 1984
Revised:	

Section 8.13.01.00 1985 LIGHT-DUTY TRUCK DPA TABLE

E.O. # A-10-280

Truckline	ETW Limit		Non A/C DPA	Non A/C CDT	A/C DPA	A/C CDT
Ranger 4x2	3125		11.4	13.46	12.5	12.48
Ranger 4x2	3250		11.7	13.87	12.9	12.88
Ranger 4x2 Chassis Cab	3625 @28 sq. ft.		15.2	11.47	16.6	10.68
Ranger 4x2 Chassis Cab	3875 @39 sq. ft.		18.1	10.98	19.5	10.33
Ranger 4x4	3375		11.8	12.98	13.0	12.12
Ranger 4x4	3625		12.2	13.49	13.4	12.52
Bronco II	3625		11.0	14.24	12.1	13.26
Bronco II	3750		11.5	14.24	12.6	13.35
F-150 4x2 1/	4000		13.2	13.24	14.5	12.41
F-150 4x2	4500		14.0	14.18	15.4	13.20
F-150 4x2	4750		15.2	15.42	16.6	14.35
F-250 4x2	5000	R	16.2	14.18	17.6	13.30
		B	18.0	12.77	19.4	12.04
F-150 4x4	5000	R	16.5	14.19	17.9	13.30
		B	18.6	12.23	20.0	11.59
F-250 4x4	5250	R	17.7	14.03	19.1	13.18
	5500	B	20.0	12.53	21.4	11.90
Bronco	5000	R	14.0	15.42	15.4	14.36
	5250	B	17.2	12.51	18.6	11.88
E-150	5250	R	15.2	15.38	16.6	14.35
E-250	5500	R	17.3	14.16	18.7	13.31
	6000	B	18.0	13.71	19.4	13.05

NOTES

B=Bias R=Radial tires (All values for radial tires except where noted)

1/ F-150 (4000 ETW, Radial Tires and 1" x 50" spoiler)

Engine Family F4.9TGG