State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-298
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 1986 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)
GFM4.9T1HGG7	300	(4.9)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

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

The following are the emission standards for this engine family:

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 this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
4000-5999	0.28	3.4	0.7

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 listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

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 19th day of July, 1985.

K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company

Executive Order No. A-10-298

Engine Family GFM4.9T1HGG7

Evaporative Family 6GM/6GQ

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
VV-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 G4.9TGG

Issue Date: JUN 2 1 1985

17.00.00-3

E.O. #A-10-298

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company

Page 2

Engine Family GFM4.9T1HGG7

Engine Code 4-52L-ROOB

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

CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-52L-ROOB	E-150 4x2						
	RVS	C6-003	4250	E4EF-YA	E5TE-VA	E3TE-EA	ABM
	RVL		4500				
	SVL		4750				
	CWL		5250				
	E-250						
	RVL	C6-003	4750 5000				
	SVL		5000				

Engine Family G4.9TGG

E.O. #A-10-298

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

___ Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas ___ Diese

Manufacturer: Ford Motor Company

Page: 3

Engine Family: GFM4.9T1HGG7

Engine Code: 4-51R-ROOB

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

CID (Liter)-Type: 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. M/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System Part No.	EGR Valve Part No.	Label Ident. Part No.
4-51R-ROOB	F-150 4x4						
	RCS	M4-3.25	4250	E4EF-NB	E5TE-VA	E3TE-BA	ABM
	RCL		4500				
	SCL		4750				
	RCS	M4-6.32	4250				
	RCL		4500				
	SCL		4750				
	RCS	M4-6.68	4250				
	RCL		4500				
	SCL		4750				
	F-250 4x2						
	RCL	M3-3.26	4250				
	RCL	M4-6.32	4250				
	RCL	M4-6.68	4250				
	F-250 4x4						
	RCL	M4-6.32	4750				
	RCL	M4-6.68	4750				
	BRONCO	M4-3.25	4750				
		M4-6.32	4750				
		M4-6.68	4750				

Engine Family: G4.9TGG

Issue Date: JUN 21 1985

Revised:

E.O. #A-10-298

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company Page 4

Engine Family GFM4.9T1HGG7 Engine Code 4-52R-ROOB

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

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-52R-ROOB	F-150 4x4						
	RCS	C6-013	4250	E4EF-UB	E5TE-VA	E4TE-CA	ABM
	RCL		4500				
	SCL		4750				
	F-250 4x2 RCL	C6-013	4250				
	F-250 4x4 RCL	C6-013	4750				
	BRONCO	C6-013	4750				

Engine Family G4.9TGG

Issue Date: JUN 21 1985

Revised:

E.O. #A-10-298

198 6 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company Page 5

Engine Family GFM4.9T1HGG7 Engine Code 4-51S-ROOB

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

Engine Code	Vehicle Models (If Coded see attachment)	Trans. M/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-51S-ROOB	F-150 4x2						
	RCL	M3-3.26	4000	E4EF-ACB	E5TE-UA	E4TE-EA	ABM
	SCS		4500				
	SCL		4500				
	RCL	M4-3.25	4000				
	SCS		4500				
	SCL		4500				
	RCS	M4-6.32	3875				
	RCL		4000				
	RCS	M4-6.68	3875				
	RCL		4000				

Engine Family G4.9TGG

Issue Date: JUN 0 1 1985

E.O. #A-10-298

198 6 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company

Page 6

Engine Family GFM4.9T1HGG7

Engine Code 4-52S-ROOB

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

CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No
4-52S-ROOB	F-150 4x2			E4EF-ZB	E5TE-RA	E3TE-RA	ABM
	RCS	AOX-052	3875				
	RCL		4000				
	SCS		4500				
	SCL		4500				
	RCS	AOX-053	3875				
	RCL		4000				
	SCS		4500				
	SCL		4500				

Engine Family G4.9TGG

Issue Date:	JUN 21 1985
Revised:	

17.00.00-8

E.O. #A-10-298

198 6AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company Page 7

Engine Family GFM4,9T1HGG7 Engine Code 4-51T-ROOB

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

Engine Code	Vehicle Models (If Coded see attachment)	Trans. M/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-51T-ROOB	E-150	M3-3.26		E4EF-VB	E5TE-TA	E3TE-EA	ABM
	RVS		4250				
	RVL		4250				
	SVL		4500				
	E-250						
	RVL		4750				
	SVL		5000				
	E-150	M4-3.25					
	RVS		4250				
	RVL		4250				
	SVL		4500				
	CWL		5250				

Engine Family G4.9TGG

Issue Date: JUN 21 1985
Revised:

E.O. PA-10-298

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company Page 8

Engine Family GFM4.9T1HGG7 Engine Code 4-52T-ROOB

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

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-52T-ROOB	E-150	AOX-053		E4EF-XB	E5TE-SA	E3TE-EA	ABM
	RVS		4250				
	RVL		4500				
	SVL		4750				
	CWL		5250				
	E-250						
	RVL		5000				
	SVL		5000				

Engine Family G4.9TGG

Issue Date:	JUN 21 1985	17.00.00-10									
Revised:											

E.O. #A-10-298

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company Page 9

Engine Family GFM4.9T1HGG7 Engine Code 4-52G-ROOB

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

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-52G-ROOB	F-150 4x2						
	RCS	C6-013	3875	E4EF-UB	E5TE-VA	E4TE-RA	ABM
	RCL		4000				
	SCS		4500				
	SCL		4750				

Engine Family G4.9TGG

Issue Date:	JUN 21 1985	17.00.00-11
Revised:		