State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-314
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 1987 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement Cubic Inches	(Liters)	Exhaust Emission Control Systems (Special Features)
HFM2.3T5FGGX	140	(2.3)	Exhaust Gas Recirculation Three-Way Catalysts (Two) Oxygen Sensor (Electronic Fuel Injection)

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
0-3999	0.39	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
0-3999	0.21	3.5	0.3

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for 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 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.) and with Health and Safety Code Section 43204.

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 22nd day of July, 1986.

Bob Cross for

K. D. Drachand, Chief
Mobile Source Division

E.O. #A-10-314

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company

Engine Family HFM2.3T5FGGX ~~(H2.3TGG)~~

Evaporative Family 7HM

Engine Type I4

Liters (CID) 2.3 (140)

ABBREVIATIONS

Ignition System

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

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
SPL-Smoke Puff Limiter or Throttle Delay
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 or aftercooler
MFI-Mechanical Fuel Injection
TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor

VEHICLE MODELS:

Ranger 4x2
Regular Cab (SWB, LWB)
Super Cab (SWB)

Ranger 4x4
Regular Cab (SWB, LWB)
Super Cab (SWB)

Aerostar 4x2
Van (SWB)
Bus (SWB)

Engine: Front X Mid. ____ Rear ____

Drive: FWD ____ RWD X 4WD Full Time ____ 4WD Part Time X

Engine Family H2.3TGG

Issue Date	JUL 10 1986									
Revised										

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1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company Engine Family HFM2.3T5FGGX (H2.3TGG)

Liter (CID) 2.3 (140) Eng. Type I4

Emission Control Sys. (Special Features) CL, EGR, TWC, (EFI)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EEC IV Part No.	Fuel System EFI Part No.	EGR Valve Sonic Part No.	Catalyst TWC Part No.
749TR00B	Ranger 4x2 SCS	Y5X396 (M5)	3375	E7TF-AA	E59E-AB	E59E-AC/ E79E-BA	E67A-DB E77A-KA/ -KB/ -HB/ -HC@
	Ranger 4x4 SCS		3500				
	Ranger 4x4 SCS	K5X397 (M5)					
00A/N	Ranger 4x2 RCS	Y5X396 (M5)	3000				
	RCL						
	Ranger 4x4 RCS		3125				
	RCL		3250				
	Ranger 4x4 RCS	K5X397 (M5)	3125				
	RCL		3250				
49RR00A/N	Aerostar 4x2 Van SWB	Y5X396 (M5)					E69A-LB E79A-ALA/ -ALB@
	Bus SWB		3625				
9TR00B	Ranger 4x2 RCS	Y5X396 (M5)	3000				E67A-DB E77A-KA/ -KB/ -HB/ -HC@
	RCL						
	Ranger 4x4 RCS	Y5X396 (M5)	3125				
	RCL		3250				
	RCS	K5X397 (M5)	3125				
	RCL		3250				

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 ment. If two test weights are listed, the lower weight will be used for testing.

Added per R/C-107

Engine Family H2.3TGG

Issue Date	JUL 10 1990							
Revised	10-17 NOV 26	APR 21						

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

Manufacturer Ford Motor Company Engine Family HFM2.3T5FGGX (H2.3TGG)

Liter (CID) 2.3 (140) Eng. Type I4

Emission Control Sys. (Special Features) CL, EGR, TWC, (EFI)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EEC IV Part No.	Fuel System EFI Part No.	EGR Valve Sonic Part No.	Catalyst TWC Part No.
750TR00B	Ranger 4x2 SCS	A4X024 (L4)	3375	E7TF-JA	E59E-AB	E59E-AC/ E79E-BA	E67A-DB E77A-KA/ -KB
0SR00A/N	Ranger 4x2 RCS		3000				-HB/ -HC@
	RCL		3125				
A/N	Aerostar 4x2 Van SWB		3250				E69A-LB E79A-ALA/ -ALB@

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.
@ Added per R/C-107

Engine Family H2.3TGG

Issue Date JUL 10 1986
Revised APR 21