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 System (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

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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.

K. D. Drachand, Chief Mobile Source Division

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer Ford Motor Comp	any Engine Family HFM2.3T	Engine Family HFM2.3T5FGGX (H2.3TGG)				
Evaporative Family 7HM	Engine Type 14	Engine TypeI4				
	Liters (CID))				
ABBREVIATIONS						
Ignition System	Exhaust Emissions Control System	Special Features				
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	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	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				
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 Engine Family <u>H2.3TGG</u>	X 4WD Full Time 4WD Par	t Time X				
Issue Date JUL 10 1986 Revised	17-3					

Manufactur	er Ford Moto	r Compan	У	Engine Fa	mily <u>HFM2.3</u>	T5FGGX (H2	.3TGG)
Liter (CID	2.3 (140)			Eng.	Гуре <u>I4</u>		·
Emission C	ontrol Sys. (Spe	cial Feat	ures)	CL, EGR, TWO	C, (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 Ranger 4x4 SCS Ranger 4x4 SCS	Y5X396 (M5) K5X397 (M5)	3375 3500	E7TF-AA	E59E-AB	E59E-AC/ E79E-BA	E67A-DB E77A-KA/ -KB/ -HB/ -HC@
	Ranger 4x2 RCS RCL Ranger 4x4 RCS RCL Ranger 4x4 RCS RCL RCS	Y5X396 (M5) K5X397 (M5)	3000 3125 3250 3125 3250				
49RR00A/N	Aerostar 4x2 Van SWB Bus SWB	Y5X396 (M5)	3625				E69A-LB E79A-ALA -ALB
9TR00B	Ranger 4x2 RCS RCL	Y5X396 (M5)	3000				E67A-DB E77A-KA/ -KB/
	Ranger 4x4 RCS RCL RCS RCS RCL	Y5X396 (M5) K5X397 (M5)	3125 3250 3125 3250			,,	-HB/ -HC@

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Issue Date UUL 10 1500 Revised | 10-1700 26 APR 21

Manufactu	rer Ford Moto	or Compa	ny	Engine Fa	mily <u>HFM2.37</u>	r5FGGX (H2	.3TGG)
Liter (CI	D) 2.3 (140)			Eng.	Type <u>I4</u>		·
Emission (Control Sys. (Spe	cial Feat	ures) <u>C</u>	L, 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	scs	A4X024 (L4)	3375	E7TF-JA	E59E-AB	E59E-AC/ E79E-BA	E77A-KA/ -KB
OSROOA/N	Ranger 4x2 RCS RCL		3000 3125				-HB/ -HC@
A/N	Aerostar 4x2 Van SWB		3250				E69A-LB E79A-ALA -ALB
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