

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-325
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 passenger cars:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
HFM2.3V5FGK4	140 (2.3)	Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Electronic Fuel Injection) (Turbocharger) (Intercooler-Thunderbird Only)

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

The following are the emission standards for this engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0.39	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.18	3.1	0.5

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".

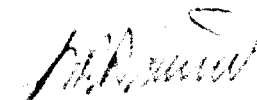
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

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 24th day of September, 1986.



K. D. Drachand, Chief
Mobile Source Division

Manufacturer Ford Motor Company Engine Family HFM2.3V5FGK4
 Evaporative Family 7HMQ 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:

Ford Thunderbird (2 dr coupe)
 Merkur XR4ti (2 dr hatchback)

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Passenger Cars Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas Diesel _____

Manufacturer Ford Motor Company Engine Family HFM2.3V5FGK4

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

Emission Control Sys. (Special Features) EEC, ESAC, EFI, CL, EGR, TWC, TC, IC (Thunderbird only)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) 12A650 Part No.	Fuel System (EFI) 9F593 Part No.	EGR Valve 9D475 Part No.	Catalyst 5E212 Part No.
705ER00A (with A/C)	T'Bird (8.0)	M5	3625 3750 <u>1/</u>	E7ZE-AA	E5ZE-AB	E4DE-AA	E7SC-AB (CA alt)
705ER00N (non A/C)	T'Bird (7.3)	M5	3625 3750	E7ZE-AA	E5ZE-AB	E4DE-AA	E7SC-AB (CA alt)
706ER10A (with A/C)	T'Bird (8.0)	A4	3625 3750 <u>2/</u>	E7ZF-BB	E5ZE-AB	E4DE-AA	E7SC-AB (CA alt)
706ER10N (non A/C)	T'Bird (7.3)	A4	3625 3750	E7ZE-BB	E5ZE-AB	E4DE-AA	E7SC-AB (CA alt)
605RRO0A (with A/C)	Merkur (8.8)	M5	3250	E5ZF-FD	E5ZE-AB	E5RE-BA	E5RD-AC (AA alt)
606ER01A (with A/C)	Merkur (8.8)	A3	3250	E5ZF-KB	E5ZE-AB	E5RE-BA	E5RD-AC (AA alt)
705ER10A <u>3/</u> (with A/C)	T'Bird (8.0)	M5	3750	E7ZF-AD	E5ZE-AB	E4DE-AA	E7SC-AB (CA alt)
706ER11A <u>3/</u> (with A/C)	T'Bird (8.0)	A4	3750	E7ZF-BD	E5ZE-AB	E4DE-AA	E7SC-AB (CA alt)

1/ Added per R/C 2.3-1
2/ Added per R/C 2.3-4
3/ Added per R/C 2.3-11

Notes: 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.

Date of Issue _____ Revisions: _____