

E.O. 12812

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-337-1
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 1988 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 Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
JFM2.9V5FNC8	2.9 (179)	Air Injection - Pump (Some Models) Exhaust Gas Recirculation Three-Way Catalysts (Two) Heated Oxygen Sensor (Electronic Fuel Injection) (On-Board Diagnostics)

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>
0.25	2.8	0.5

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 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 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 1988 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 the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year/except for up to 1000 vehicles produced before August 28, 1987.

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.

This Executive Order supersedes Executive Order A-10-337 issued March 13, 1987.

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 23rd day of July, 1987.


K. D. Drachard, Chief
Mobile Source Division

Manufacturer Ford Motor Company Engine Family JFM2.9V5FNC8
 Evaporative Family 8HM Engine Type Otto Spark V6
 Liters (CID) 2.9 (178.6)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 ECU-Electronic Control Unit
 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
 DBC-Dual Bed Catalyst
 EGR-Exhaust Gas Recirculation
 EIC-Electronic Injection Control
 EM-Engine Modification
 OC-Oxidation Catalyst
 OS-Oxygen Sensor
 HOS-Heated Oxygen Sensor
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 TWC-Three-Way Catalyst
 WUOC-Warm-Up Oxidation Catalyst
 WUTWC-Warm-Up Three-Way Catalyt

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection or Throttle Body Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 EFI-Electronic Fuel Injection
 IC-Intercooler or Aftercooler
 MFI-Mechanical Fuel Injection
 OBD-On-Board Diagnostics
 TC-Turbocharger

Fuel System

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

VEHICLE MODELS:

Merkur Scorpio (GAE 4dr. Hatchback)

Engine: Front x Mid. Rear
 Drive: FWD RWD x 4WD Full Time 4WD Part Time

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

Manufacturer Ford Motor Company Engine Family JFM2.9V5FNC8

Liter (CID) 2.9 (178.6) Eng. Type Otto spark V6

Emission Control Sys. (Special Features) EGR,HOS,(EFI),TWC(2), & AIP(manual trans. only)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) 12A650 Part No.	Fuel System 9F593 Part No.	EGR Valve 9D475 Part No.	Catalyst 5E212 Part No.
736NR06A ^{1/} (with A/C)	Scorpio (8.5)	A4 ^{1/}	3500 ^{1/} 3625 ^{1/}	87GB-S2A ^{1/}	E67E-AB (BB alt)	86GB-AB	87GB-GD ^{1/} (HA alt) ^{1/}
735AR10A ^{1/} (with A/C)	Scorpio (8.5)	M5 ^{1/}	3500 ^{1/} 3625 ^{1/}	87GB-T2A ^{1/}	"	"	"
836AR01A ^{2/} (with A/C)	Scorpio (8.5)	A4	3500 3625	88GB-HA	"	"	"
835AR03A ^{3/} (with A/C)	Scorpio (8.5)	M5	3500 3625	88GB-FC	"	"	"
836AR02A ^{4/} (with A/C)	Scorpio (8.5)	A4	3500 3625	88GB-HB	"	"	"
835AR04A ^{5/} (with A/C)	Scorpio (8.5)	M5	3500 3625	88GB-FD	"	"	"
835AR05A ^{6/} (with A/C)	Scorpio (8.5)	M5	3500 3625	88GB-FE	"	"	"
	^{1/} Added per R/C 2.9-2			^{6/} Added per R/C 2.9-12			
	^{2/} Added per R/C 2.9-3						
	^{3/} Added per R/C 2.9-5						
	^{4/} Added per R/C 2.9-10						
	^{5/} Added per R/C 2.9-11						

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.

Date of Issue 2/2/87

Revisions: 4/21/87