

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-251  
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 1984 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>
EFM3.8V5HHC4	231 (3.8)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (CFI)

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

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles":

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
.39	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
.27	5.1	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 1960.15 of Title 13, California Administrative Code which includes repair or replacement of 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 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 2036) and Health and Safety Code Section 43204, provided, however, that jurisdiction is hereby reserved to modify these provisions to the extent made necessary by an EPA waiver decision, in order to assure that the listed vehicles comply with the minimum federal requirements applicable in California.

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 26<sup>th</sup> day of July, 1983.

  
K. D. Drachand, Chief  
Mobile Source Control Division

Manufacturer Ford Motor Company Executive Order No. A-10-251  
 Engine Family EFM3.8V5HHC4 Evaporative Family 4FM  
 Engine CID (Liters) 231 (3.8)

**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  
 TR-Thermal Reactor  
 TWC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber Vent  
 CFI-Central Fuel Injection  
 DID-Diesel Injection-Direct  
 DIP-Diesel Injection-Prechamber  
 EFI-Electronic Fuel Injection  
 MFI-Mechanical Fuel Injection  
 TC-Turbocharged

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
 nV-nVenturi Carburetor  
 VV-Variable Venturi

VEHICLE MODELS:

<u>Vehicle Line</u>	<u>Body Type (Cab Style)</u>	<u>Body Code (Wheelbase)</u>
LTD	4 Dr Sedan	LTD, LTD Brougham
	4 Dr Wagon	LTD, LTD Squire
Mustang	3 Dr Hatchback	Mustang, Mustang LX
	2 Dr Sedan	Mustang, Mustang LX
	2 Dr Convertible	Mustang LX
Thunderbird	2 Dr Sedan	Thunderbird, Thunderbird Elan, Fila Thunderbird
	3 Dr Hatchback	Capri GS
Capri	3 Dr Hatchback	Capri GS
Cougar	2 Dr Sedan	Cougar, Cougar LS
Marquis	4 Dr Sedan	Marquis, Marquis Brougham
	4 Dr Wagon	Marquis

DRIVE SYSTEM: Front Engine/Rear -wheel Drive

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-10-251

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

Manufacturer Ford Motor Company Page 2

Engine Family EFM3.8V5HHC4 Engine Code     

ECS (Special Features) EEC/EGR/EGS/AIP/TWC CID (Liter)-Type 231 (3.8L)

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Rp)	Trans.	Equiv. Test Weight	Ign. System <i>EEC</i> Part No.	Fuel System <i>EFI</i> Part No.	EGR Valve Part No.	Label Ident. Part No.
4-16N-R00A/N	LTD 54D (7.9)	AOX043	3375	E4VF-12A650	E4AE-9C973	E4AE-9F483	E4AE-9C485-
		AOX045		- DA	-CC	-AA	AHH
	LTD 74D (8.6)	AOX043	3500				
		AOX045					
	Marquis 54D (7.9)	AOX043	3375				
		AOX045					
	Marquis 74D (8.6)	AOX043	3500				
		AOX045					
4-16P-R00A	Thunderbird (8.1) 63D	AOX043					
		AOX045					
	Cougar 66D (9.4)	AOX043					
		AOX045					
	Mustang 61B (8.5)	C5042	3125	E4VF-12A650	E4AE-9C973		E4AE-9C485-
				BA	DC		AHG
	Mustang 66B (8.6)						
	Mustang B2L (8.7)		3375				
	Capri 61D (8.3)		3250				
		AOX043	3250		E4AE-9C973		
4-16P-R00N		AOX045			-CC		
	Mustang 61B (8.5)	C5042	3125		E4AE-9C973		
					-DC		
	Mustang 66B (8.6)						
	Mustang B2L (8.7)		3250				
	Capri 61D (8.3)		3125				
		AOX043	3125		E4AE-9C973		
		AOX045			-CC		
	Mustang 66B (8.5)	AOX043					
		AOX045					
Mustang 66B	AOX043						
	AOX045						

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Hp)	Trans.	Equiv. Test Weight	Ign. System <i>EEC</i> Part No.	Fuel System <i>EFI</i> Part No.	EGR Valve Part No.	Label Ident. Part No.
4-16P-R00N	Mustang B2L (8.7) Capri 61D (8.3)	AOX043 AOX045 AOX043 AOX045	3375 ✓ 3250 ✓	E4VF-12A650 -BA	E4AE-9C973 -CC	E4AE-9F483 -AA	E4AE-9C485- AHG
4-16S-R00A	LTD 54D (7.9) LTD 74D (8.6) Marquis 54D (7.9) Marquis 74D (8.6) Thunderbird (8.1) 63D Cougar 66D (9.4)	C5051    C5045	3375 ✓ 3500 ✓ 3375 ✓ 3500 ✓	E4VF-12A650 -FA	E4AE-9C973 -DC		E4AE-9C485- AHH
4-16S-R00N	LTD 54D (7.9) LTD 74D (8.6) Marquis 54D (7.9) Marquis 74D (8.6) Thunderbird (8.1) Cougar 66D (9.4)	C5051    C5045	3375 ✓ 3500 ✓ 3375 ✓ 3500 ✓ 3375 ✓				

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.

\*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -