

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-245  
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>
EFM1.6V5HMC1	98 (1.6)	Air Injection - Valve Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Electronic Fuel Injection)

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>
0.41	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>
0.40	4.0	0.6

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 5<sup>th</sup> day of August, 1983.

  
K. D. Drachand, Chief  
Mobile Source Control Division

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

**Manufacturer** Ford Motor Company **Executive Order No.** A-10-245  
**Engine Family** EFM1.6V5HMCL **Evaporative Family** 4HM  
**Engine CID (Liters)** 98 (1.6L)

**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-Turbocharge

Fuel System

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

VEHICLE MODELS:

<u>Vehicle Line</u>	<u>Body Type (Cab Style)</u>	<u>Body Code (Wheelbase)</u>
Ford Escort	3-Door	61-D
	5-Door	58-D
	4-Door Wagon	74-D
Mercury Lynx	3-Door	61-D
	5-Door	58-D

Engine Family E1.6VMC

Issue Date	6-28-83	16.03-2						
Revised	8-10-83							

DRIVE SYSTEM: Front Engine/ Front -Wheel Drive

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company Page 1

Engine Family EFM1.6V5HMC1 Engine Code 4-27A-ROOA/N  
 Code 4-28A-ROOA/N

ECS (Special Features) EGS/EGR/AIV/TWC/EFI CID (Liter)-Type 98 (1.6L)

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Hp)	Trans.	Equiv. Test Weight	Ign. System EEC Part No.	Fuel System CFI Part No.	EGR Valve Part No.	Label Ident Part
4-27A-ROOA	Esct 61D	MTX 360B (M-5)	2500 ✓	E4GF-12A650- AA	E4EE-9H487-BB OR: E4EE-9H487-BA E3EE-9H487-PB	E4EE-9D475-AA	AGA
	Esct 58D						
	Lynx 61D						
	Lynx 58D						
4-27A-ROON	Esct 61D		2375 ✓				
	Esct 58D		2500 ✓				
	Lynx 61D		2375 ✓				
	Lynx 58D		2500 ✓				
4-28A-ROOA	Esct 61D	AT-019 (A-3)	2500 ✓	E4GF-12A650- BA	E4EE-9H487-AB OR: E3EE-9H487-UB		ADH
	Esct 58D		2625 ✓				
	Lynx 61D		2500 ✓				
	Lynx 58D		2625 ✓				
4-28A-ROON	Esct 61D		2500 ✓				
	Esct 58D		2625 ✓				
	Lynx 61D		2500 ✓				
	Lynx 58D		2625 ✓				

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 -

Engine Family E1.6VMC

Issue Date	6-28-83	16.03-3					
Revised	7-20						

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

Manufacturer Ford Motor Company Page 2

Engine Family EFM1.6V5HMC1 Engine Code 4-27A-R00A/N  
4-28A-R00A/N

ECS (Special Features) EGS/EGR/AIV/TWC/ (EFI) CID (Liter)-Type 98 (1.6) I-4

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Hp)	Trans.	Equiv. Test Weight	Ign. System EI Part No.	Fuel System EFI Part No.	EGR Valve Part No.	Label Ident. Part No.	
4-27A-R00A	Esct 61D (5.8)	MTX-360B (M-5)	2625	E4GF-12A650-AA	E4EE-9H487-BB or: E4EE-9H487-BA E3EE-9H487-PB	E4EE-9D475-AA	E4AE-9C48-AGA	
	Esct. 58D (5.8)							
	Lynx 61D (5.8)							
	Lynx 58D (5.8)							
4-27A-R00N	Escort 74D (6.3)		2500					
	Esct 61D (5.8)							2500
	Esct 58D (5.8)							2625
	Lynx 61D (5.8)							2500
4-27A-R00A	Lynx 58D (5.8)	AT-019 (A-3)	2625	E4GF-12A650-BA	E4EE-9H487-AB or: E3EE-9H487-NB		E4AE-9C48-ADH	
	Esct 61D (5.8)							
	Esct 58D (5.8)							2750
	Esct 74D (6.3)							2750
4-28A-R00N	Lynx 61D (5.8)		2625					
	Lynx 58D (5.8)							2625
	Esct 74D (6.3)							2625
	Esct 61D (5.8)							2625

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 -

Engine Family E1.6VMC

Issue Date	6-28-83	16.03-3					
Revised	8-4	8-10	8-19				

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A A-10-245

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

Manufacturer Ford Motor Company

Page 3

Engine Family EFM1.6V5HMC1

Engine Code 4-27A-R02A/N

ECS (Special Features) EGS/EGR/AIV/TWC/(EFI)

CID (Liter)-Type 98 cid (1.6L) I-4

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Hp)	Trans.	Equip. Test Weight	Ign. System EI Part No.	Fuel System EFI Part No.	EGR Valve Part No.	Label Ident. Part No.
4-27A-R02A	Escort 61D(5.8)	MTX360B (M-5)	2625	E4GF-12A650-AA	E4EE-9H487-BB	E4EE-9D475-AA	E4AE-9C485-AGA
4-27A-R02N	Escort 58D(5.8)	3)	2500		or: E4EE-9H487-BA, E4EE-9H87-PB		
	Lynx 61D (5.8)						
	Lynx 58D (5.8)						
	Escort 74D(6						
	Escort 61D(5.8)						
	Escort 58D(5.8)						
Lynx 61D (5.8)	2500						
Lynx 58D (5.8)	2625						
Escort 74D(6	2500						
	2625						
	2625						

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 -

Engine Family E1.6VMC

Issue Date	7-15-83	16.03-4						
Revised	8-10	8-19						