

State of California
AIR RESOURCES BOARD



EXECUTIVE ORDER A-10-248
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>
EFM2.3V1HFCI	140 (2.3)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

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>
0.39	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>
0.38	5.4	0.4

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 the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 1st day of April, 1983.


K. D. Drachand, Chief
Mobile Source Control Division

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Executive Order No. A-10-248 Page 1
 Engine Family EFM2.3V1HFCL Evaporative Family 4AM
 Engine CID (Liters) 140 (2.3)

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 Feature

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 MFI-Mechanical Fuel Injection
 TC-Turbocharge

Fuel System

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

<u>Vehicle Line</u>	<u>Body Type</u>	<u>Body Code</u>	
<u>Ford</u>			
Tempo	2-Door	66D	Tempo L, GL, GLX
	4-Door	54D	
<u>Mercury</u>			
Topaz	2-Door	66D	Topaz L, GS, LS
	4-Door	54D	

DRIVE SYSTEM: Front Engine/Front Wheel Drive

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-10-248

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

Manufacturer Ford Motor Company

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Engine Family EFM2.3V1HFC1

Engine Code _____

ECS (Special Features) AIP, EGR, TWC/CL

CID (Liter)-
Type

140 (2.3) I-4

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System 1-V Part No.	EGR Valve Part No.	Label Ident. Part No.
4-25D-R11A	FTPZ-66D FTPZ-54D MTPZ-66D MTPZ-54D	M5	2750 2875 2750 2875	E43F-12A650-KA (Module)	E43E-9510-VA	E43E-9F483-CA	E4AE9C485 9C485 ACA
4-25D-R11N	MTPZ-66D MTPZ-54D FTPZ-66D FTPZ-54D (Non A/C Hp- all 6.3)		2750 2875 2750 2750				

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 -

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-10-248

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

Manufacturer Ford

Page 3

Engine Family EFM2.3/LHFC1

Engine Code 4-25D-R13 A/N

ECS (Special Features) EGR/AIP/TWC/EEC/CL/EFI

CID (Liter)-
Type

140 (2.3) I-4

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Hp)	Trans.	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System 1-V Part No.	EGR Valve Part No.	Label Ident. Part No.
4-25D-R13A	FTPZ-66D MTPZ-66D FTPZ-54D MTPZ-54D	M5	2750 2875	E43F-12A650- KA	E43E-9510-VA	E43E-9F-483 CA	E4AE-9C48 ACC
4-25D-R13N	FTPZ-66D MTPZ-66D FTPZ-54D MTPZ-54D		2750 2875				
<p><i>Revisions in process 8/21/84</i></p>							
<p>All non A/C H.P. = 6.3</p>							

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 - 4/6/83 *R/K 2.3P-20.*

Engine Family E2.3VFC

07

Issue Date	8-3-83	16.03-4						
Revised								

198 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford

Page three

Engine Family EFM2.3H1HFC1

Engine Code 4-25D-R18 A/N

ECS (Special Features) EGR/AIP/TWC/EEC/CL/EFI

CID (Liter)-Type 140 (2.3) I-4

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Rp)	Trans.	Equiv. Test Weight	Ign. System Part No.	Fuel System Part No.	EGR Valve Part No.	Lab. Id Part
4-25D-R18A(1)	FTPZ-66D MTPZ-66D FTPZ-54D MTPZ-54D	M5	2750 2875	E43F-12A650- KA	E43E-9510-VA	E43E-9F/483- CA	E4AE 9C4S ARS
4-25D-R18N(1)	FTPZ-66D MTPZ-66D FTPZ-54D MTPZ-54D		2750 2875				
<p><i>Being revised 8/22/84</i></p>							
<p>All non A/C H.P. = 6.3</p>							

Comments: See page one for abbreviations and evaporative emission family identification

(1) Added per Running Change 2.3P-32.

Engine Family E2.3VFC

Issue Date	8-29-83
Revised	

16.03-5