

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-278
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 1985 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>
FFM3.8V5HHC5	231 (3.8)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst

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>
0.31	5.8	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 29th day of June 1984


K. D. Drachand, Chief
Mobile Source Division

Manufacturer Ford Motor Company Executive Order No. A-10-278
 Engine Family FFM3.8V5HHC5 Evaporative Family 5FM
 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 Valve
 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
 V-Variable Venturi

VEHICLE MODELS:

<u>Vehicle Line</u>	<u>Body Type (Cab Style)</u>	<u>Body Code (Wheelbase)</u>
LTD	4 Dr Sedan 4 Dr Wagon	LTD, LTD Brougham LTD, LTD Squire
Mustang	3 Dr Hatchback 2 Dr Sedan 2 Dr Convertible	Mustang LX Mustang LX Mustang LX
Thunderbird	2 Dr Sedan	Thunderbird, T'Bird Elan Fila Thunderbird
Capri	3 Dr Hatchback	Capri GS
Cougar	2 Dr Sedan	Cougar, Cougar LS
Marquis	4 Dr Sedan 4 Dr Wagon	Marquis, Marquis Brougham Marquis

DRIVE SYSTEM: Front Engine/ Rear -Wheel Drive

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Ford Motor Company Page 2

Engine Family FFM3.8V5HHC5 Engine Code _____

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

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Ep)	Trans.	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System CFI Part No.	EGR Valve Part No.	Label Ident Part
4-16N-R10A	LTD 54D (9.4) LTD 74D (9.1) Marquis 54D (9.4) Marquis 74D (9.1) Thunderbird 63D (8.9) Cougar 66D (10.3)	AOX066 (AOD) and A3(1)	3375 3350 3375 3500	E4VF-12A650- DB	E5SE-9C973-BA	E4AE-9F483- AA	E5AE-9C48 CBP
4-16N-R10N	LTD 54D (8.5) LTD 74D (8.3) Marquis 54D (8.5) Marquis 74D (8.3) Thunderbird 63D (8.1) Cougar 66D (9.4)		3375 3350 3375 3500				
4-16P-R10A	Mustang 61B (8.9) Mustang 66B (9.5) Mustang B2L (9.9) Capri 61D (9.1) Mustang 61B (8.9) Mustang 66B (9.5) Mustang B2L (9.9) Capri 61D (9.1)	C5020 (A/T) AOX066 (AOC)	3250 3375 3375(2) 3250 3375 3250	E4VF-12A-650- BB	E5SE-9C973-CA E5SE-9C973-BA		E5AE-9C48

(1) Added by R/C 3.8-5

(2). Revised by R/C 3.8-3

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

Manufacturer Ford Motor Company Page 3

Engine Family FFM3.8V5HHC5 Engine Code _____

ECS (Special Features) EEC/EGR/EGS/AIP/TWC/(CFI) 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 EEC IV Part No.	Fuel System CFI Part No.	EGR Valve Part No.	Label Ident. Part	
4-16P-R10N	Mustang 61B (8.1)	C5020 (A/T)	3125	E4VF-12A650-BB	E5SE-9C973-CA	E4AE-9F483-AA	E5AE-9C485-CBR	
	Mustang 66B (8.6)							
	Mustang B2L (9.0)		3250					
	Capri 61D (8.3)		3250 ⁽¹⁾					
	Mustang 61B (8.1)	AOX066 (AOD)	3250			E5SE-9C973-BA		
	Mustang 66B (8.6)		3125					
	Mustang B2L (9.0)		3375					
	Capri 61D (8.3)		3250					
	5-16S-R00A		LTD 54D (9.4)		C5058 (A/T)			3375
LTD 74D (9.1)			3500					
Marquis 54D (9.4)		3375						
Marquis 74D (9.1)		3500						
Thunderbird 63D (8.9)								
Cougar 66D (10.3)								
5-16S-R00N		LTD 54D (9.4)	C5058 (A/T)	3375				
	LTD 74D (9.1)	3500						
	Marquis 54D (9.4)	3375						
	Marquis 74D (9.1)	3500						
	Thunderbird (8.9)	3375						
	Cougar 66D (10.3)							

Comments: See page one for abbreviations and evaporative emission family identification.
(1) Revised by R/C 3.8-3

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A 10-278

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

Manufacturer Ford Motor Company

Page 4

Engine Family FFM3.8V5HHC5

Engine Code

ECS (Special Features) EEC/EGR/EGS/AIP/TWC/(CFI)

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 EEC IV Part No. 12A650	Fuel System CFI 9C973- Part No.	EGR Valve 9F483- Part No.	Label Iden 9C485- Part
5-16P-R10A	Must 61B (8.9)	C5020 (A/T)	3250	E53F-ASA	E5SE-GA	E4AE-AA	E5AE-CLD
	Must 66B (9.5)		3375				
	Must B2L (9.9)	AOX066 (AOD)	3250		E5SE-HA		
	Capri 61D (9.1)		3375				
	Must 61B (8.9)		3250				
	Must 66B (9.5)		3375				
	Must B2L (9.9)		3250				
Capri 61D (9.1)	3250						
5-16P-R10N	Must 61B (8.1)	C5020 (A/T)	3250	E53F-ASA	E5SE-GA	E4AE-AA	E5AE-CLD
	Must 66B (8.6)		3375				
	Must B2L (9.0)	AOX066 (AOD)	3250		E5SE-HA		
	Capri 61D (8.3)		3250				
	Must 61B (8.1)		3250				
	Must 66B (8.6)		3375				
	Must B2L		3250				
Capri 61D (8.3)	3250						
5-16N-R11A	LTD 54D (9.4)	AOX066 (AOD)	3375	E53F-APB	E5SE-HA	E4AE-AA	E5AE-CLD
	LTD 74D (9.1)		3500				
	Marquis 54D (9.4)		3375				
	Marquis 74D (9.1)		3500				
	T'Bird 63D (8.9)	C5058 (A/T)	3375		E5SE-GA		
	Cougar 66D (10.3)		3500				
	LTD 54D (9.4)		3375				
	LTD 74D (9.1)		3500				
	Marquis 54D (9.4)		3375				
	Marquis 74D (9.1)		3500				
	T'Bird 63D (8.9)	AOX066 (AOD)	3375		E5SE-HA		
	Cougar 66D (10.3)		3500				
	LTD 54D (8.5)		3375				
	LTD 74D (8.3)		3500				
Marquis 54D (8.5)	3375						
Marquis 74D (8.3)	3500						
T'Bird 63D (8.1)	C5058 (A/T)		3375	E5SE-GA			
Cougar 66D (9.4)		3375					
LTD 54D (8.5)		3375					
LTD 74D (8.3)		3500					
Marquis 54D (8.5)	AOX066 (AOD)	3375	E5SE-HA				
Marquis 74D (8.3)		3500					
T'Bird (8.1)		3375					
Cougar 66D (9.4)	C5058 (A/T)	3375	E5SE-GA				
LTD 54D (8.5)		3375					
LTD 74D (8.3)	3500						
Marquis 54D (8.5)	AOX066 (AOD)	3375	E5SE-HA				
Marquis 74D (8.3)		3500					
T'Bird (8.1)	C5058 (A/T)	3375	E5SE-GA				
Cougar 66D (9.4)		3375					

R/C 3.8-7

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

Manufacturer Ford Motor Company Page 5

Engine Family FFM3.8V5HHC5 Engine Code _____

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

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Rp)	Trans.	Equip. Test Weight	Ign. System EEC IV Part No. 12A650	Fuel System CFI 9C973- Part No.	EGR Valve 9F483- Part No.	Label Iden 9C485- Part
5-16P-R05A	Must 61B (8.9) Must 66B (9.5) Must B2L (9.9) Capri 61D (9.1)	C5020 (A/T)	3250 3375	E4VF-BB	E5SE-GA	E4AE-AA	E5AE-CKC
	Must 61B (8.9) Must 66B (9.5) Must B2L (9.9) Capri 61D (9.1)	AOX066	3250 3375		E5SE-HA		
5-16P-R05N	Must 61B (8.1) Must 66B (8.6) Must B2L (9.0) Capri 61D (8.3)	C5020 (A/T)	3250 3375	E4VF-BB	E5SE-GA		
	Must 61B (8.1) Must 66B (8.6) Must B2L Capri 61D (8.3)	AOX066 (AOD)	3250 3375 3250		E5SE-HA		
5-16N-R06A	LTD 54D (9.4) LTD 74D (9.1) Marquis 54D (9.4) Marquis 74D (9.1) T'Bird 63D (8.9) Cougar 66D (10.3)	AOX066 (AOC)	3375 3500 3375 3500		E5SE-HA		E5AE-CKP
	LTD 54D (9.4) LTD 74D (9.1) Marquis 54D (9.4) Marquis 74D (9.1) T'Bird 63D (8.9) Cougar 66D (10.3)	C5058 (A/T)	3375 3500 3375 3500		E5SE-GA		
5-16N-R06N	LTD 54D (8.5) LTD 74D (8.3) Marquis 54D (8.5) Marquis 74D (8.3) T'Bird 63D (8.1) Cougar 66D (9.4)	AOX066 (AOD)	3375 3500 3375 3500	E4VF-DB	E5SE-HA	E4AE-AA	E5AE-CKP
	LTD 54D (8.5) LTD 74D (8.3) Marquis 54D (8.5) Marquis 74D (8.3) T'Bird (8.1) Cougar 66D (9.4)	C5058	3375 3500 3375 3500 3375		E5SE-GA		

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

Manufacturer Ford Motor Company Page 6

Engine Family FFM3.8V5HHC5 Engine Code _____

ECS (Special Features) EEC/EGR/EGS/AIP/TWC/CFI 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 EEC IV Part No. 12A650	Fuel System CFI Part No. 9C973	EGR Valve 9F483- Part No.	Lab. Id. EPA Cat							
5-16N-R07A	LTD 54D (9.4)	AOX066 (AOD)	3375	E4VF-DB	E5SE-HA	E4AE-AA	E5AE-							
	LTD 74D (9.1)		3350											
	Marquis 54D (9.4)		3375											
	Marquis 74D (9.1)		3500											
	T'Bird 63D (8.9)													
	Cougar 66D (10.3)													
	LTD 54D (9.4)	C5058 (A/T)	3375											
	LTD 74D (9.1)		3500											
	Marquis 54D (9.4)		3375											
	Marquis 74D (9.1)		3500											
	T'Bird 63D (8.9)													
	Cougar 66D (10.3)		3375											
	5-1-R07N		LTD 54D (8.5)					AOX066 (AOC)	3375	E4VF-DB	E5SE-HA	E4AE-AA	E5AE-	
			LTD 74D (8.3)						3500					
Marquis 54D (8.5)		3375												
Marquis 74D (8.3)		3500												
T'Bird 63D (8.1)		3375												
Cougar 66D (9.4)														
LTD 54D (8.5)		C5058	3375	E5SE-GA										
LTD 74D (8.3)			3500											
Marquis 54D (8.5)			3375											
Marquis 74D (8.3)			3500											
T'Bird (8.1)			3375											
Cougar 66D (9.4)														
5-16N-R06A			LTD 54D (9.4)		AOX066 (AOC)	3375	E4VF-DB	E5SE-HA	E4AE-AA					E5AE-
			LTD 74D (9.1)			3500								
	Marquis 54D (9.4)	3375												
	Marquis 74D (9.1)	3500												
	T'Bird 63D (8.9)													
	Cougar 66D (10.3)													
	LTD 54D (9.4)	C5058 (A/T)	3375	E5SE-GA										
	LTD 74D (9.1)		3500											
	Marquis 54D (9.4)		3375											
	Marquis 74D (9.1)		3500											
	T'Bird 63D (8.9)													
	Cougar 66D (10.3)													

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

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. 1A 10-278

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

Manufacturer Ford Motor Company

Page 7

Engine Family FFM3.8V5HHC5

Engine Code

ECS (Special Features) EEC/EGR/EGS/AIP/TWC/CFI

CID (Liter)-
Type

231 (3.8L)

Engine Code	Vehicle Models (If Coded see attachment) (Non-A/C Dyno Rp)	Trans.	Equip. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System CFI -9C973- Part No.	EGR Valve -9F483- Part No.	Label Ident. -9C485- Part		
5-16N-R06N	LTD 54D (8.5)	AOX066 (AOD)	3375	E4VF-DB	E5SE-HA	E4AE-AA	E5AE-		
	LTD 74D (8.3)		3500						
	Marquis 54D (8.5)		3375						
	Marquis 74D (8.3)		3500						
	T'Bird 63D (8.1)	3375							
	Cougar 66D (9.4)	C5058	3375					E5SE-GA	
	LTD 54D (8.5)								3500
	LTD 74D (8.3)								3375
	Marquis 54D (8.5)								3500
	Marquis 74D (8.3)								3375
	T'Bird (8.1)								3500
	Cougar 66D (9.4)								3375

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

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A 10-278

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

Manufacturer Ford Motor Company

Page 8

Engine Family FFM3.8V5HHC5

Engine Code

ECS (Special Features) EEC/EGR/EGS/AIP/TWC/CFI

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 EEC IV -12A650- Part No.	Fuel System CFI -9C973- Part No.	EGR Valve -9F483- Part No.	Label Ident. -9C485- Part
5-16S-R10A	LTD 54D (9.4)	C5058 (A/T)	3375	E53F-AMA	E5SE-GA	E5SE-AA	E5AE-CKP
	LTD 74D (9.1)		3500				
	Marquis 54D (9.4)		3375				
	Marquis 74D (9.1)		3500				
	Thunderbird 63D (8.9)						
	Cougar 66D (9.7)						
5-16S-R10N	LTD 54D (8.5)	C5058 (A/T)	3375				
	LTD 74D (8.3)		3500				
	Marquis 54D (8.5)		3375				
	Marquis 74D (8.3)		3500				
	Thunderbird (8.1)		3375				
	Cougar 66D (8.8)						

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