State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-319 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 1987 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacer Cubic Inches		Exhaust Emission Control Systems (Special Features)
HFM5.0V5HBC7	302	(5.0)	Air Injection - Pump Exhaust Gas Recirculation Dual Three-Way Catalyst Dual Oxidation Catalyst Dual Heated Oxygen Sensors (Electronic Fuel Injection)

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

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
Grams per Mile	<u>Grams per Mile</u>	<u>Grams per mile</u>		
0.39	7.0	0.7		

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	<u>Grams per Mile</u>
0.18	0.3	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 1960.1.5 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 "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 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 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.

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 21 day of July, 1986.

K. D. Drachand, Chief Mobile Source Division

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Bill Blass Designer Series

Givenchy Designer Series

Lincoln Mark VII LSC

Lincoln Continental

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Page la

ManufacturerFord Motor Comp	any Engine Family HE	MS OVSHRC7
Evaporative Family 7HM		Otto Cycle
	Liters (CID)5.	0 (302)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control Syst	cem Special Features
CA-Centrifugal Advance ÉEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TR-Thermal Reactor	CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic
Fuel System	√TWC-Three-Way Catalyst System	Fuel Injection IC-Intercooler
CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor		or aftercooler MFI-Mechanical Fuel Injection TC-Turbocharger
EHICLE MODELS:		
VEHICLE LINE	BODY STYLE	NAME PLATE
Mark VII 63D	2 door	Lincoln Mark VII Lincoln Mark VII

2 door

4 door

Mark LSC 63D

Continental 54D

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VEHICLE MODELS:

VEHICLE LINE	BODY STYLE	NAME PLATE
Ford 74K	Station Wagon	LTD Crown Victoria LTD Crown Victoria LX LTD Country Squire LTD Country Squire LX
Ford 66K	2 door	LTD Crown Victoria LTĎ Crown Victoria LX
Ford 54K	4 door	LTD Crown Victoria LTD Crown Victoria LX
Mercury 74K	Station Wagon	Grand Marquis Grand Marquis LX
Mercury 66K	2 door	Grand Marquis Grand Marquis LX
Mercury 54K	4 door	Grand Marquis Grand Marquis LX
Mustang 66B	2 door	Mustang LX
Mustang 61B	3 door	Mustang LX Mustang GT
Mustang B2L	Convertible	Mustang LX Mustang GT
Thunderbird 63D	2 door	Thunderbird Thunderbird LX
Cougar 66D	2 door	Cougar LS Cougar XR-7
Town Car 54D	4 door	Lincoln Town Car Lincoln Town Car Signature Series Lincoln Town Car Cartier Designer Series

Engine:	Front <u>XX</u>	Mid	Kear	
Drive:	FWD	RWD XX	4WD Full Time 4WD Pa	art Time

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Passenger	Cars X Light	- -Duty Tru	cks	Medium-Duty V	enicles	Page Gas <u>X</u> Di	01 esel
Manufactu	rer Ford Motor	Company		Engine Far	mily HFM5.0	V5HBC7	
Liter (CI	D) 5.0L (302)			Eng.	Type V8 Ott	o Cyele	
Emission (Control Sys. (Spe	cial Feat	ures) <u> </u>	EEC(EFI)EGR/EGS	/AIP/TWC		
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type Manual	Equiv. Test Weight	Ign. System EEC IV Part No. -12A650-	Fuel System Part No9F593-	EGR Valve Part No9F483-	Catalyst
PROOA	MUST-61B (9.9) (non-GT)	M5X335	3500	E7SF-BA	Е6ТЕ-АВ	E6AE-CA E6AE-DA (alt)	E6ZC-BA (-5F250-)
	MUST-61B (9.0) (GT) MUST-66B (10.1) MUST-B2L (10.2)		3375 3625				
1PROON	MUST-61B (9.0) (non-GT) MUST-61B (8.2) (GT)		3500				
	MUST-66B (9.2) MUST-B2L (9.3)		3375 3625				
	-						

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

Physical 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 7-22-86 Revisions:

E.O. # A-10-319 19 87 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 02 Passenger Cars x Light-Duty Trucks Medium-Duty Vehicles Gas x Diesel Manufacturer Ford Motor Company Engine Family HFM5.0V5HBC7 Liter (CID) 5.0L (302) Eng. Type Emission Control Sys. (Special Features) ____EEC/EFI/EGR/EGS/AIP/TWC Engine Vehicle Models Trans. Equiv. Ign. System Fuel System EGR Valve Catalyst Code (If Coded see Type Test attachment) Weight EEC IV Part No. Part No. Part No. Part No. (Dyno Hp) AOD -12A650--9F593--9F483-622LR10A MRK7-63D (10.1) AOXO70 4000 E6SF-LC E6TE-AB E6AE-CA E6LC-BA E6AE-DA (-5F250-)(alt) 722FROOA TBR3-63D (8.1) A0X059 3750 E7SF-GB E67E-BB E6AE-CA E6SC+AA E67E-BA E6AE-DA (-5F250-)(alt) (alt) COUG-66D (9.1) E59E-AB E6SC-AA (-5E212-)(alt) COUG-66D (Cougar XR7) (10.1)1/(10.6)2/722FROON TBR3-63D (7.4) 3625 COUG-66D (8.3) 3750 COUG-66D (Cougar XR7) (9.2)1/ $(9.6)\overline{2}/$

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

P(se refer to manufacturer's HP list for correct dyno test HP settings based on model and education.

If two test weights are listed, the lower weight will be used for testing.

1/ P22560VR15 @ 30/30 psi 2/ P22560VR15 @ 26/26 psi

Date of	Issue	7-22-86	Revisions:	7-8-87	(R/C 5.0-9)
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	19 _8 <u>7</u>	AIR RES	SOURCES BO	ARD SUPPLEMENT	AL DATA SHEET	E.O. # A-1	0-319
Passenger	Cars <u>X</u> Light	-Duty Tru	cks	Medium-Duty Vo	ehicles		
Manufactur	er Ford Motor	Company		Engine Far	nily HFM5.0	V5HBC7	
Liter (CID) 5.0L (302)			Eng. 1	ype V8 Ott	o Cycle	
Emission C	ontrol Sys. (Spec	cial Feat	ures)E	EC/EFI/EGR/EGS	/AIP/TWC		
		<u> </u>	T .	<u> </u>	<u> </u>		
Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ian. System EEC IV	Fuel System	EGR Valve	Catalyst
	(Dyno Hp)	AOD		Part No. -12A650-	Part No. -9F593-	Part No. -9F483-	Part No.
22PROOA	MUST-61B (9.9) (non-GT)	A0X074 A0X070	# 3625	E7SF-EA	E6TE-AB	E6AE-CA E6AE-DA (alt)	E6ZC-BA (-5F250-)
(•	MUST-61B (9.0) (GT)						
	MUST-66B (10.1)		3500				
	MUST-B2L (10.2)		# 3750				

3500 <u>2</u>/

3500

3750

2/ Dual Cert

MUST-61B (9.0)

MUST-61B (8.2)

MUST-66B (9.2)

MUST-B2L (9.3)

(GT)

(non-GT)

722PROON

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Passenger	Cars X Light	•		Medium-Duty Ve		Page Gas <u>X</u> Di	04 esel
Manufactui	rer Ford Motor	Company		Engine Fam	nily <u>HFM5.0</u>	V5HBC7	
Liter (CII	5.0L (302)			Eng. 1	ype V8 Ott	- Cyele-	
Tmission (Control Sys. (Spec	cial Feat	ures) <u> </u>	EC/EFI/EGR/EGS	/AIP/TWC	·	
ngine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System EEC IV Part No. -12A650-	Fuel System Part No9F593-	EGR Valve Part No9F483-	Catalyst
22QROOA	LNCP-54D (13.3) FORD-74K (13.1) 1/ (13.8) 2/ FORD-66K (12.6) 1/ (13.5) 2/ FORD-54K (12.6) 1/ (13.5) 2/ (14.3) 3/ MERC-74K (13.1) 1/ (13.8) 2/ MERC-66K (12.6) 1/ (13.5) 2/ MERC-54K (12.6) 1/ (13.5) 2/	AOXO59	4250	E7SF-NA	E67E-BB E67E-BA (alt) E67E-AA (alt) E67E-AB (alt)	E6AE-CA E6AE-DA (alt)	E6AC-BB (-5E212-) E6AC-BB (-5E214-)

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	Cars X Light						esel
danufactu	rer Ford Motor	Company		Engine Far	mily HFM5.0	V5HBC7	
iter (CI	5.0L (302)			Eng. 1	ype V8 Ott	o Gyelo	
Emission (Control Sys. (Spe	cial Feat	ures)E	EC(EFI)/EGR/EGS	/AIP/TWC		
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System EEC IV Part No. -12A650-	Fuel System Part No. -9F593-	EGR Valve Part No9F483-	Catalyst Part No.
22QROON	FORD-74K (11.9) <u>1/</u> (12.5) <u>2/</u>	A0X059	4250	E7SF-NA	E67E-BB E67E-BA (alt) E67E-AA	E6AE-CA E6AE-DA (alt)	E6AC-BB (-5E212-) E6AC-BB
	FORD-66K (11.5) $\frac{1}{2}$ / (12.3) $\frac{2}{2}$ /		4000 4250		(alt) E67E-AB (alt)		(-5E214-)
	FORD-54K (11.5) $\frac{1}{2}$ / (12.3) $\frac{2}{3}$ /		·			·	
	MERC-74K (11.9) $\frac{1}{2}$ /						
	MERC-66K (11.5) $\frac{1}{2}$ / (12.3) $\frac{2}{2}$ /						
	MERC-54K						

Passenger	1 <u>9</u> 87	AIR RES	SOURCES BO	ARD SUPPLEMENT	AL DATA SHEET		-/ <i>0</i> -3/9 esel
Manufactui	rer Ford Motor	Company		Engine Fam	nily HFM5.0	V5НВС7	
Liter (CII	5.0L (302)			Eng. 1	ype V8-Ott	o Gyel e	
Emission (Control Sys. (Spe	cial Feat	ures) <u>E</u>	EC(EFI)EGR/EGS	/AIP/TWC	·	
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System EEC IV Part No. -12A650-	Fuel System Part No9F593-	EGR Valve Part No9F483-	Catalyst Part No.
22RROOA	MRK7-63 B (10.1)	A0X068 A0X059	4000	E7SF-GB	E67E-BB E67E-BA (alt) E59E-AA (alt) E59E-AB (alt)	E6AE-CA E6AE-DA (alt)	E6LC-CB (-5F250-) E6LC-BC (-5E212-)
22SROOA	FORD-66K (12.6) 1/ (13.5) 2/ FORD-54K (12.6) 1/ (13.5) 2/ (14.3) 3/ MERC-66K (12.6) 1/ (13.5) 2/ MERC-66K (12.6) 1/ (13.5) 2/	AOXO69	4250	E7SF-JA			E6AC-BB (-5E212-) E6AC-BB (-5E214-)

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_	Cars X Light						esel		
	5.0L (302)			Engine Family HFM5.0V5HBC7 Eng. Type V8 Otto Cycle					
mission (Control Sys. (Spe	cial Feat	ures) <u> </u>	EEC/EFI/EGR/EGS	/AIP/TWC				
Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System Part No.	EGR Valve	Catalyst		
	(Dyno Hp)	AOD		-12A650-	-9F593-	Part No. -9F483-			
22 SROON	FORD-66K (11.5) <u>1</u> / (12.3) <u>2</u> /	AOXO69	4000	E7SF-JA	E67E-BB E67E-BA (alt)	E6AE-CA E6AE-DA (alt)	E6AC-BB (-5E212-) E6AC-BB		
	FORD-54K $(11.5) \frac{1}{2}/$ $(12.3) \frac{2}{3}/$		4250		E59E-AA (alt) E59E-AB (alt)		(-5E214-)		
	MERC-66K (11.5) $\frac{1}{2}$ / (12.3) $\frac{2}{2}$ /					·			
	MERC-54K (11.5) $\frac{1}{2}$ / (12.3) $\frac{2}{2}$ /								
	-								

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Passenger	Cars X Light	- -Duty Tru	icks	Medium-Duty V	enicles	Page Gas <u>X</u> Di	08 ese1
Manufactu	rer Ford Motor	Company		Engine Fa	mily HFM5.0	V5HBC7	
Liter (CID)5.0L (302)			· · · · · · · · · · · · · · · · · · ·	Eng. '	Type V8 Ott	o Cycle.	
Emission (Control Sys. (Spe	cial Feat	ures)	eec(efi)egr/egs	/AIP/TWC		
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System EEC IV Part No. -12A650-	Fuel System Part No9F593-	EGR Valve Part No9F483-	Catalyst Part No.
23RROOA	LNCP-54D (13.3) FORD-74K (13.1) 1/ (13.8) 2/ FORD-66K (12.6) 1/ (13.5) 2/ FORD-54K (12.6) 1/ (13.5) 2/ (14.3) 3/ MERC-74K (13.1) 1/ (13.8) 2/ MERC-66K (12.6) 1/ (13.5) 2/ MERC-54K (12.6) 1/ (13.5) 2/	AOXO61	4250	E7SF-UA	E67E-BB E67E-BA (alt) E59E-AA (alt) E59E-AB (alt)	E6AE-CA E6AE-DA (alt)	E6AC-BB (-5E212-) E6AC-BB (-5E214-)
					1		

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Passenger Cars	Х	Light-Duty Trucks	Medium-Duty Vehicles	GasX	Diesel
lanufacturer	Ford	Motor Company	Engine Family	HFM5.0V5HBC7	
iter (CID)	5.0L	(302)	Eng. Type	V8 Otto Cycle	
mission Contro	Sys.	(Special Features)	eec/efi/egr/egs/aip/tw	C	

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System EEC IV Part No12A650-	Fuel System Part No9F593-	EGR Valve Part No9F483-	Catalyst Part No.
	(Dyno Hp)	AOD		12000	313,3	71.00	
23RROON	FORD-74K (11.9) <u>1</u> / (12.5) <u>2</u> /	A0X061	4250	E7SF-UA	E67E-BB E67E-BA (alt) E59E-AA	E6AE-CA E6AE-DA (alt)	E6AC-BB (-5E212-) E6AC-BB (-5E214-)
)	FORD-66K (11.5) <u>1</u> / (12.3) <u>2</u> /		4000		(alt) E59E-AB (alt)		(JEZI4)
	FORD-54K (11.5) <u>1</u> / (12.3) <u>2</u> / (13.0) <u>3</u> /		4250				
	MERC-74K (11.9) <u>1</u> / (12.5) <u>2</u> /			i			
	MERC-66K (11.5) $\frac{1}{2}$ / (12.3) $\frac{2}{2}$ /			·			
	MERC-54K (11.5) <u>1</u> / (12.3) <u>2</u> /						

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Passenger	Cars X Light	-Duty Tru	cks	Medium-Duty Ve	enicles	Gas X Di	esel
Manufactu	rer Ford Motor	Company		Engine Fam	nily HFM5.0	V5HBC7	
Liter (CI	D) 5.0L (302)			Eng. 1	ype V8 Ott	o Cycle	
	Control Sys. (Spe			•			
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type Manual	Test Weight	Ign. System EEC IV Part No. -12A650-	Fuel System Part No9F593-	EGR Valve Part No9F483-	Catalyst
21PRO5A *	MUST-61B (9.9) (non-GT)	м5х335	3500	E7SF-BB *	E6TE-AB	E6AE-CA E6AE-DA	E6ZC-BA (-5F250-)
()	MUST-61B (9.0) (GT)					(alt) E7AE-AA * (alt)	
	MUST-66B (10.1)		# 3500			:	
	MUST-B2L (10.2)		3625				
21PRO5N *	MUST-61B (9.0) (non-GT)		3500				
•	MUST-61B (8.2) (GT)						
	MUST-66B (9.2)		#.3375 <u>2</u> /				
	MUST-B2L (9.3)		3625 °				
	-		2 / Du 1				
			2/ Dual Cert.				