

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-262
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 light-duty trucks and medium-duty vehicles:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
EFM4.9T1HGG5	300 (4.9)	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>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
4000-5999	0.50	9.0	1.0

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

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
4000-5999	0.37	6.9	0.8

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.

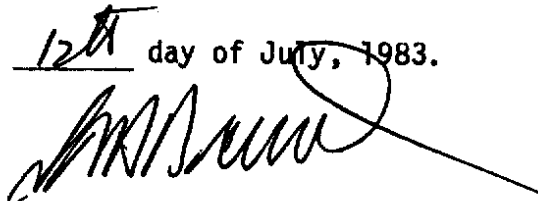
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

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 12th day of July, 1983.



K. D. Drachand, Chief
Mobile Source Control Division

Manufacturer Ford Motor Company Executive Order No. A-10-262
 Engine Family E4.9T1HGG5 Evaporative Family 4GM/4GO
 Engine CID (Liters) 300 (4.9)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EEC-Electronic Engine Control
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

Fuel System

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

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

VEHICLE MODELS:

BODY TYPE (CAB STYLE)

BODY CODE (WHEELBASE)

F-100/150 4x2	Regular Cab	SWB
	Regular Cab	LWB
	Super Cab	SWB
	Super Cab	LWB
F-150 4x4	Regular Cab	SWB
	Regular Cab	LWB
	Super Cab	LWB
F-250 4x2	Regular Cab	LWB
	Super Cab	SWB
F-250 4x4	Regular Cab	LWB
	Super Cab	LWB
Bronco		STD
E-100/150	Regular Van	SWB
	Regular Van	LWB
	Super Van	LWB
	Club Wagon	SWB
	Club Wagon	LWB
E-250	Regular Van	LWB
	Super Van	LWB

Engine Family E4.9TGG

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-10-262

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

Manufacturer Ford Motor Company Page 3

Engine Family E4M4.9T1HGG5 Engine Code _____

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 300 (4.9) I-6

Engine Code	Vehicle Models (If Coded see attachment)	Trans. L-4	Equiv. Test Weight	Ign. System ESAC Part No.	Fuel System 1-1V Part No.	EGR Valve Part No.	Label Ident. Part No.
4-52S-ROOB	F-100/150 4x2	AOX040	3750	E4EF-12A650 ZA	E4TE- 9510-6A	E3TE- 9D448-RA	AFL
	SWB	052					
	SWB	AOX041	3750				
		053					
	LWB	AOX040	3875				
		052					
	LWB	AOX041	3875				
		053					
	SWB	AOX040	4250				
	052						
SWB	AOX041	4250					
	053						
LWB	AOX040	4250					
	052						
LWB	AOX041	4250					
	053						

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 -

071080

Engine Family E4.9TGG

17-4

Issue Date:

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1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-10-262

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

Manufacturer Ford Motor Company Page 4

Engine Family EPM4.9T1HGG5 Engine Code _____

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 300 (4.9) I-6

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equip. Test Weight	Ign. System ESAC Part No.	Fuel System Carb 1-1V Part No.	EGR Valve Part No.	Label Ident. Part No.
4-51R-ROOB	F-250 4x2 LWB	M3 3.26	4500	E4EF-12A650-NA	E4TE-9510-HA	E3TE-9D448-BA	AFL
	F-250 4x2 LWB		4750				
	F-150 4x4 SWB	M4 3.25	4250				
	F-150 4x4 LWB		4500				
	F-150 4x4 LWB	M4 3.25	4750				
	Bronco		4750				
	F-150 4x4 SWB	M-4 6.32	4250				
	F-150 4x4 LWB		4500				
	F-150 4x4 LWB		4750				
	F-250 4x2 LWB		4500				
	F-250 4x2 LWB		4750				

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 -

071000

Engine Family E4.9TGG

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

Manufacturer Ford Motor Company Page 5

Engine Family E4M4.9T1HGG5 Engine Code _____

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 300 (4.9) I-6

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equip. Test. Weight	Ign. System ESAC Part No.	Fuel System Carb. 1-1V Part No.	EGR Valve Part No.	Label Ident Part
4-51R-ROOB Continued	F-250 4x4 LWB	M-4 6.32	4750	E4EF-12A650-NA	E4TE-9510-HA	E3TE-9D448-BA	AFL
	F-250 4x4 LWB		5000				
	Bronco		4750				
	F-150 4x4 SWB		4250				
	F-150 4x4 LWB	M-4 6.69	4500				
	F-150 4x4 LWB		4750				
	F-250 4x2 LWB		4500				
	F-250 4x2 LWB		4750				
	F-250 4x4 LWB		4750				
	F-250 4x4 LWB		5000				
	Bronco		4750				
	F-250 4x4 LWB	C6-013					

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 -

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Engine Family E4.9TGG

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

Manufacturer Ford Motor Company

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Engine Family E4M4.9T1HGG5

Engine Code

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

CID (Liter)-

Type 300 (4.9) I-6

Engine Code	Vehicle Models (If Coded see attachment)		Trans.	Equiv. Test Weight	Ign. System	Fuel System	EGR Valve	Label
					ESAC	Carb. 1-1V	Part No.	Part No.
4-52R-ROOB	F-150	4x4	C6-013	4250	E4EF-12A650-UA	E4TE-9510-HA	E4TE-9D448-CA	AFL
		SWB						
	F-150	4x4		4500				
		LWB						
	F-150	4x4		4750				
		LWB						
	F-250	4x2		4500				
		LWB						
F-250	4x2	4750						
	LWB							
F-250	4x4	4750						
	LWB							
Bronco		4750						
F-250	4x4	5000						
	LWB							

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 -

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Engine Family E4.9TGG

Issue Date: MAY 31 1983

17-7

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

Manufacturer Ford Motor Company Page 8

Engine Family EPM4.9T1HGG5 Engine Code _____

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 300 (4.9) I-6

Engine Code	Vehicle Models (if Coded see attachment)	Trans.	Eqv. Test Weight	Ign. System ESAC Part No.	Fuel System Carb. 1-1Y Part No.	EGR Valve Part No.	Label Ident Part
4-51S-R02B	F-100/150 4x2	M3	3750	E4EF-12A650-ACA	E4TE-9510-FA	E4TE-9D448-EA	AFL
	SWB	3.26					
	LWB		3875				
	SWB		4000				
	LWB		4250				
	SWB	M4 3.25	3750				
	LWB		3875				
	SWB		4000				
	LWB		4250				
	SWB	M4 6.32	3875				
	LWB		3875				
	SWB	M4 6.69	3875				
LWB		3875					

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.

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Date of Issue -

071080

Engine Family E4.9TGG

<u>Truckline</u>	<u>Non A/C</u>		<u>A/C</u>	
	<u>DPA</u>	<u>CDT</u>	<u>DPA</u>	<u>CDT</u>
Ranger 4x2 <u>1/</u>	10.0	15.35	11.0	14.28
F-150 4x2 <u>2/</u>	13.2	13.24	14.5	12.41
F-150 4x2 <u>3/</u>	14.0	14.18	15.4	13.20
F-250 4x2 <u>4/</u>	B18.0 R16.2	12.77 14.18	19.4 17.6	12.04 13.30
Ranger 4x4	11.8	12.98	13.0	12.12
Bronco 4x4	B17.2 R14.0	12.51 15.42	18.6 15.4	11.88 14.36
Bronco II	11.0	14.24	12.1	13.26
F-150 4x4	B18.6 R16.5	12.23 14.19	20.0 17.9	11.59 13.30
F-250 4x4	B20.0 R17.7	12.53 14.03	21.4 19.1	11.90 13.18
E-150 4x2	15.2	15.38	16.6	14.35
E-250 4x2	18.0	13.71	19.4	13.05

NOTES

For each truckline the DPA specified is applicable to all engine displacements and inertia weight classes unless otherwise specified.

1/ Ranger Regular Cab chassis to be certified as follows:

<u>Eng. Dlp.</u>	<u>Max. F.A.</u>	<u>DPA</u>
2.3L	25.2 sq ft	14.5
2.8L	39.0 sq ft	22.5

2/ RA = Radial tires and aero package (only on 4.9L F-150 RC models and 5.0L F-150 RC-SWB models with 1" x 50" spoiler).

3/ R = Radial tires/B = Bias tires. If not specified, DPA's represent both radial and bias tire applicability.

4/ F250 Regular Cab chassis to be certified at 20.0 HP non-A/C, maximum frontal area is 34.5 sq ft.

3d/120.1/D

Issue Date	12-1-82	8.13.01.00-2			
Revised	3-14-83	3-30-83	7-26-83	11-30-83	

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-10-262

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

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Engine Family E4M4.9T1HGG5 Engine Code

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 300 (4.9) I-6

Engine Code	Vehicle Models (If Coded see attachment)	Trans. L4	Equip. Test Weight	Ign. System ESAC Part No.	Fuel System 1-1V Part No.	EGR Valve Part No.	Label Ident Part
4-52T-ROOB	E-100/150 4x2	A0X041	4250	E4EF-12A650-XA	E4TE-9510-EA	E3TE-9D448-EA	AFL
	SWB	A0X053					
	LWB		4250				
	LWB		4500				
	SWB		4750				
	LWB		5000				
	E-250 4x2		4750				
	LWB						
	LWB		5000				

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 -

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Engine Family E4.9TGG

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E.O. #A-10-262

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

Manufacturer Ford Motor Company

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Engine Family E4M4.9T1HGG5

Engine Code

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

CID (Liter)-
Type

300 (4.9) I-6

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test. Weight	Ign. System ESAC Part No.	Fuel System 1-1V Part No.	EGR Valve Part No.	Label Ident Part
4-52T-ROOB	E-100/150 4x2 SWB.	A0X041	4250	E4EF-12A650-XA	E4TE-9510-EA	E3TE-9D448-EA	AFL
	LWB		4250				
	LWB		4500				
	SWB		4750				
	LWB		5000				
	E-250 4x2 LWB		4750				
	LWB		5000				

*Revision in Process
8/21/84*

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.

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Date of Issue -

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Engine Family E4.9TGG

Issue Date: MAY 31 1983 17-12

Revised: