

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-298  
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 1986 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>
GFM4.9T1HGG7	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 emission standards for this 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	0.50	9.0	1.0

The following are the certification emission values for this 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	0.28	3.4	0.7

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.).

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 19<sup>th</sup> day of July, 1985.

  
K. D. Drachand, Chief  
Mobile Source Division

Manufacturer Ford Motor Company Executive Order No. A-10-298  
 Engine Family GFM4.9T1HGG7 Evaporative Family 6GM/6GQ  
 Engine CID (Liters) 4.9L

**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, IFI  
 nV-nVenturi Carburetor  
 V-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  
 TOC-Trap Oxidizer Continual  
 TOP-Trap Oxidizer Periodical  
 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  
 IC - Intercooler  
 MFI-Mechanical Fuel Injection  
 TC-Turbocharged

VEHICLE MODELS:

F-150 4x2  
 Regular Cab (SWB/LWB)  
 Super Cab (SWB/LWB)

F-150 4x4  
 Regular Cab (SWB/LWB)  
 Super Cab (LWB)

F-250 4x2  
 Regular Cab (LWB)

F-250 4x4  
 Regular Cab (LWB)

E-150 4x2  
 Regular Van (SWB/LWB)  
 Super Van (LWB)  
 Club Wagon (LWB)

E-250 4x2  
 Regular Van (LWB)  
 Super Van (LWB)

BRONCO 4x4  
 Regular Cab (SWB/LWB)

DRIVE SYSTEM: FRONT Engine/ REAR Wheel Drive  
 Engine Family G4.9TGG

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Engine Family G4.9T1HGG7 Engine Code 4-52L-ROOB

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-52L-ROOB	E-150 4x2						
	RVS	C6-003	4250	E4EF-YA	E5TE-VA	E3TE-EA	ABM
	RVL		4500				
	SVL		4750				
	CWL		5250				
	E-250						
	RVL	C6-003	4750 5000				
	SVL		5000				

Engine Family G4.9TGG

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Engine Family GFM4.9T1HGG7

Engine Code 4-51R-ROOB

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

CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. M/T	Equip. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System Part No.	EGR Valve Part No.	Label Ident. Part No.
4-51R-ROOB	F-150 4x4	M4-					
	RCS	3.25	4250	E4EF-NB	E5TE-VA	E3TE-BA	ABM
	RCL		4500				
	SCL		4750				
	RCS	M4- 6.32	4250				
	RCL		4500				
	SCL		4750				
	RCS	M4- 6.68	4250				
	RCL		4500				
	SCL		4750				
	F-250 4x2	M3-					
	RCL	3.26	4250				
	RCL	M4- 6.32	4250				
	RCL	M4- 6.68	4250				
	F-250 4x4	M4-					
RCL	6.32	4750					
RCL	M4- 6.68	4750					
BRONCO	M4-						
	3.25	4750					
	M4-						
	6.32	4750					
	M4-						
	6.68	4750					

Engine Family G4.9TGG

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Engine Family GFM4.9T1HGG7 Engine Code 4-52R-ROOB

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equip. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-52R-ROOB	F-150 4x4	C6-013	4250	E4EF-UB	E5TE-VA	E4TE-CA	ABM
	RCS						
	RCL						
	SCL	4750					
	F-250 4x2	C6-013	4250				
	RCL						
	F-250 4x4	C6-013	4750				
RCL							
BRONCO	C6-013	4750					

Engine Family G4.9TGG

17.00.00-6

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Engine Family GFM4.9T1HGG7 Engine Code 4-51S-ROOB

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. M/T	Equip. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-51S-ROOB	F-150 4x2						
		M3-					
	RCL	3.26	4000	E4EF-ACB	E5TE-UA	E4TE-EA	ABM
	SCS		4500				
	SCL		4500				
		M4-					
	RCL	3.25	4000				
	SCS		4500				
	SCL		4500				
		M4-					
	RCS	6.32	3875				
	RCL		4000				
	M4-						
RCS	6.68	3875					
RCL		4000					

G4.9TGG

Engine Family

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Engine Family GFM4.9T1HGG7

Engine Code 4-52S-ROOB

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

CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equip. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System IV -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No
4-52S-ROOB	F-150 4x2						
	RCS	AOX-052	3875	E4EF-ZB	E5TE-RA	E3TE-RA	ABM
	RCL		4000				
	SCS		4500				
	SCL		4500				
	RCS	AOX-053	3875				
	RCL		4000				
	SCL		4500				

Engine Family G4.9TGG

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Engine Family GFM4, 9T1HGG7 Engine Code 4-51T-ROOB

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. M/T	Equip. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System IV -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-51T-ROOB	E-150	M3- 3.26		E4EF-VB	E5TE-TA	E3TE-EA	ABM
	RVS		4250				
	RVL		4250				
	SVL	4500					
	E-250	M4- 3.25					
	RVL		4750				
SVL	5000						
E-150	M4- 3.25						
RVS		4250					
RVL		4250					
SVL		4500					
	CWL		5250				

Engine Family G4.9TGG

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Engine Family GFM4.9T1HGG7 Engine Code 4-52T-ROOB

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System IV -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-52T-ROOB	E-150	AOX-053		E4EF-XB	E5TE-SA	E3TE-EA	ABM
	RVS		4250				
	RVL		4500				
	SVL		4750				
	CWL		5250				
	E-250						
RVL	5000						
	SVL	5000					

Engine Family G4.9TGG

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Engine Family GFM4.9T1HGG7 Engine Code 4-52G-ROOB

ECS (Special Features) AIP/EGR/EGS/TWC CID (Liter)-Type 4.9L

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV -12A650- Part No.	Fuel System 1V -9510- Part No.	EGR Valve -9D448- Part No.	Label Ident. Part No.
4-52G-ROOB	F-150 4x2						
	RCS	C6-013	3875	E4EF-UB	E5TE-VA	E4TE-RA	ABM
	RCL		4000				
	SCS		4500				
	SCL		4750				

Engine Family G4.9TGG