

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-327  
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 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>
HFM4.9T5HGG2	300 (4.9)	Air Injection Pump Exhaust Gas Recirculation Three-Way Catalyst Oxidation Catalyst Oxygen Sensor (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:

<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	2.9	0.6

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".

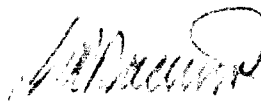
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

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 13<sup>th</sup> day of September, 1986.

  
K. D. Drachand, Chief  
Mobile Source Division

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Manufacturer Ford Motor Company Engine Family HFM4.9T5HGG2  
 Evaporative Family 7HM Engine Type I-6  
 Liters (CID) 4.9L (300)

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  
 SPL-Smoke Puff Limiter or Throttle Delay  
 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 or aftercooler  
 MFI-Mechanical Fuel Injection  
 TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
 nV-nVenturi Carburetor

VEHICLE MODELS:

F-150 4x2  
 SWB  
 LWB

F-250 4x2  
 LWB

E-250 Van  
 LWB

F-150 4x4  
 SWB  
 LWB

F-250 4x4  
 LWB

Bronco 4x4

E-150 Van  
 SWB  
 LWB

E-150 Bus  
 LWB

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Passenger Cars \_\_\_\_\_ Light-Duty Trucks x Medium-Duty Vehicles x Gas x Diesel \_\_\_\_\_

Manufacturer Ford Motor Company Engine Family HFM4.9T5HGG2

Liter (CID) 4.9L (300) Eng. Type I-6

Emission Control Sys. (Special Features) AIP/CL/EGR/TWC (EFI)

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System	EGR Valve	Catalyst	
				Part No. 12A650	Part No. 9F593	Part No. 9F483	Part No. 9F250	
751R00B	F-150 4x2	M4 M4X325E	3875/4000 4000/4250 4500 4500/4750	E7TF-RB	E67E-BB	E7TE-CA	E7TA-AA	
	RC SWB							
	LWB							
	SC SWB							
	LWB							
	F-150 4x4							
	RC SWB							
	LWB							
	Bronco 4x4							
	F-150 4x2	C4 M4-632 M4-668	4000/4250 4000/4250					E7TA-BA E7TA-BA
	RC SWB							
	LWB							
	F-250 4x2							
	RC LWB							
F-150 4x4								
RC LWB								
SC LWB								
RC SWB								
F-250 4x4	4750/5000	5000	E7TA-BA					
RC LWB								
Bronco 4x4								

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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Passenger Cars \_\_\_\_\_ Light-Duty Trucks x Medium-Duty Vehicles x Gas x Diesel \_\_\_\_\_

Manufacturer Ford Motor Company Engine Family HFM4.9T5HGG2

Liter (CID) 4.9L (300) Eng. Type I-6

Emission Control Sys. (Special Features) AIP/CL/EGR/TWC (EFI)

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System	EGR Valve	Catalyst
				Part No. 12A650	Part No. 9F593	Part No. 9F483	Part No. 9F250
752RR00B	F-150 4x2	A3 C6-029 C6-027	4000 4000/4250 4500 4750	E7TF-AEA	E67E-BB	E7TE-CA	E7TA-AA
	RC SWB						
	LWB						
	5C SWB						
	LWB						
F-250 4x2		4250/4500					
RC LWB							
752QR00B	E-150		4250 4500 4750 5000	E7TF-ADC	E67E-BB	E7TE-CA	E7VA-CB
	RV SWB						
	LWB						
	SV LWB						
	CW LWB						
E-250		5000					
RV LWB		5250					
SV LWB							

For more info see for abbreviations and evaporative emission family identification.

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Passenger Cars \_\_\_\_\_ Light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel \_\_\_\_\_

Manufacturer Ford Motor Company Engine Family HFM4.9T5HGG2

Liter (CID) 4.9L (300) Eng. Type I-6

Emission Control Sys. (Special Features) AIP/CL/EGR/TWC (EFI)

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EEC IV Part No. -12A650-	Fuel System  Part No. -9F593-	EGR Valve		Catalyst
						Part No. -9F483-	Part No. -9F250-	
752RR10B	F150 4x2	C6027		E7TF-AEB	E67E-BB	E7TE-CA	E7TA-AA	
	RC SWB	C6029	4000					
	RC LWB		4250					
	F150 4x2	C6027						
	SC SWB		4750					
	SC LWB		4750					
F250 4x2	C6027	4500						
RC LWB								

Comments: See page one for abbreviations and evaporative emission family identification.  
 \* \* \* \* \* List for correct dyno test HP settings based on model and

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

Manufacturer \_\_\_\_\_ Engine Family \_\_\_\_\_

Liter (CID) \_\_\_\_\_ Eng. Type \_\_\_\_\_

Emission Control Sys. (Special Features) \_\_\_\_\_

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type  A3	Equiv. Test Weight	Ign. System (ECU) 12650 Part No.	Fuel System  -9F593- Part No.	EGR Valve  -9F483- Part No.	Catalyst  -9F250- Part No.
7-52R-R11B	F-150 4x2 RC SWB	C6029 C6027	4000	E7TF-CBA	E67E-BB	E7TE-CA	E7TA-AA

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

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HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Engine Family HFM07.5AGE2

Liters (CID) 6.1L(370) 7.0L(429) Eng. Type V-8

Emission Control Sys. and (Special Features) EGR/AIR

Engine Model (Engine Code)	Maximum Rated HP at RPM	Rated Torque at RPM	Ignition System (ECU)	Fuel System	EGR Valve	Catalyst
			Mfr. Ford -12127- Part Number	4V  Mfr. Holley -9510- Part Number	Mfr. 9D475 Part Number	Mfr. None Part Number
6.1L (5-83H-R10) (7-83H-R10)	171 @ 3600 162 @ 3400	277 @ 2800	E5HE-AA	E5HE-XA	D8DE-BA	--
7.0L (5-87H-R10) (7-87H-R10)	188 @ 3200 200 @ 3600 192 @ 3400	326 @ 2600	D9TE-AVA	E5HE-XA	D8DE-BA	--

Date of Issue

Revisions: