State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-377
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 1989 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks and medium-duty vehicles:

Engine Family	Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KFM4.9T5HGG7	4.9 (300)	Air Injection - Pump Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst Oxidation Catalyst (Electronic Port Fuel Injection) On-Board Diagnostics (Exempt)

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

The following are the emission standards for this engine family:

Loaded Vehicle Weight(lbs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
3751 - 5750	0.50	9.0	1.0

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

Loaded Vehicle Weight(lbs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
3751 - 5750	0.23	1.8	0.5

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 1988 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 the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) 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 the 2 year/24,000 mile warranty provisions of 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 30th day of June, 1988.

Bob Cross for

K. D. Drachand, Chief
Mobile Source Division

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company Engine Family KFM4.9T5HGG7

Evaporative Family 9HM Engine Type I6

Liters (CID) 4.9L

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
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
EGR-Exhaust Gas Recirculation
EIC-Electronic Injection Control (Diesel Only)
EM-Engine Modification
SPL-Smoke Puff Limiter or Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
DBC-Dual Bed Catalyst
OC-Oxidation Catalyst
TWC-Three-Way Catalyst
WUOC-Warm-Up Oxidation Catalyst
WUTWC-Warm-Up Three-Way Catalyst
OS-Oxygen Sensor
HOS-Heated Oxygen Sensor

Special Features

CFI-Central Fuel Injection or Throttle Body Injection
EPFI-Electronic Port Fuel Injection
MPFI-Mechanical Port Fuel Injection
SFI-Sequential Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
TC-Turbocharger
SC-Supercharger
IC-Intercooler or Aftercooler
CCV-Combustion Chamber Valve
OBD-On-Board Diagnostics

Fuel System

CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

VEHICLE MODELS:

Engine: Front X Mid ___ Rear ___
Drive: FWD ___ RWD X 4WD Full Time ___ 4WD Part Time X

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars _____ light-Duty Trucks XXX Medium-Duty Vehicles XXX Gas XXX Diesel _____

Manufacturer Ford Motor Company Engine Family KFM4.9T5HGG7

Liter (CID) 4.9L Eng. Type I6

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

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No. -12A650-	Fuel System Part No. -9F593-	EGR Valve Part No. -9F483-	Catalyst Part No. -5F250-
851RR00B	F150 - 4X2			E8TF-AAB	E67E-BB	E8TE-CA or E7TE-DA	E8TA-EC
	RC - SWB	M5X390	4250				
	RC - LWB	M5X572 M5X390	4500				
	SC - SWB	M5X390	4500 4750				
	SC - LWB	M5X390	4750				
	F250 - 4X2						
	RC - SWB	M5X390 M5X572	4750				
	F150 - 4X4						
	RC - SWB	M5X572 M5X390	4500				
	RC - LWB	M5X572 M5X390	4750				
	F250 - 4X4						
	RC - LWB	M5X572	5000				
	BRONCO 4X4	M5X572 M5X390	5000 4750 5000				E8TA-FB

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.

Date of Issue: 5-12-88
Revisions:

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET (continued)

Passenger Cars _____ light-Duty Trucks XXX Medium-Duty Vehicles XXX Gas XXX Diesel _____

Manufacturer Ford Motor Company Engine Family KFM4.9T5HGG7

Liter (CID) 4.9L Eng. Type I6

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

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No. -12A650-	Fuel System Part No. -9F593-	EGR Valve Part No. -9F483-	Catalyst Part No. -5F250-
751RR00B	F150 - 4X2			E8TF-CMA	E67E-BB	E8TE-DA or E7TE-CA	E8TA-EC
	RC - LWB	M4-632	4500				
	F250 - 4X2						
	RC - LWB		4750				
	F150 - 4X4						
	RC - SWB		4500				
	RC - LWB		4750				
	SC - SWB		5000				
	SC - LWB		5000				
	BRONCO 4X4		5000				E8TA-FB
752RR10B	F150 - 4X2			E8TF-BPA			E8TA-EC
	RC - SWB	C6-029	4250				
			4500				
		C6-027	4250				
			4500				
	RC - LWB	C6-029	4500				
		C6-027					
	SC - SWB/LWB	C6-027	4750				
	F250 - 4X2						
	RC - LWB	C6-027	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.

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET (continued)

Passenger Cars _____ light-Duty Trucks XXX Medium-Duty Vehicles XXX Gas XXX Diesel _____

Manufacturer Ford Motor Company Engine Family KFM4.9T5HGG7

Liter (CID) 4.9L Eng. Type I6

Emission Control Sys. (Special Features) AIP/EGR/TWC/OC/HOS/OS (EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No. -12A650-	Fuel System Part No. -9F593-	EGR Valve Part No. -9F483-	Catalyst Part No. -5F250-
752QR00B	E150 - 4X2			E8TF-BVA	E67E-BB	E8TE-DA or E7TE-CA	E8UA-GA
	RV - SWB	C6-029	4250				
			4500				
		C6-027	4250				
			4500				
	RV - LWB	C6-029	4500				
			4750				
		C6-027	4500				
			4750				
	SV - LWB	C6-027	4750				
			5000				
	CW - LWB	C6-027	5000				
			5250				
	E250 - 4x2						
	RV - LWB	C6-027	4750				
	SV - LWB	C6-027	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.

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