

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-399
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 passenger cars:

<u>Engine Family</u>	<u>Displacement</u> <u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems</u> <u>(Special Features)</u>
KFM1.9V5FFC3	1.9	(113)	Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst (Central Fuel Injection) On-Board Diagnostics (Exempted)

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>Hydrocarbons</u> <u>(Grams per Mile)</u>	<u>Carbon Monoxide</u> <u>(Grams per Mile)</u>	<u>Nitrogen Oxides</u> <u>(Grams per Mile)</u>
0.39	7.0	0.4

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

<u>Hydrocarbons</u> <u>(Grams per Mile)</u>	<u>Carbon Monoxide</u> <u>(Grams per Mile)</u>	<u>Nitrogen Oxides</u> <u>(Grams per Mile)</u>
0.15	2.2	0.4

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.).

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 24th day of August, 1988.


K. D. Drachand, Chief
Mobile Source Division

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Manufacturer Ford Motor Company Engine Family KFM1.9V5FFC3
 Evaporative Family 9FMB Engine Type OTTO I-4
 Liters (CID) 1.9L (113)

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

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

VEHICLE MODELS:

Escort 3Dr
 Escort 5Dr
 Escort SW
 Escort EXP

Engine: Front X Mid. Rear

Drive: FWD X RWD 4WD Full Time 4WD Part Time

Issue Date	8-03-88	17.00.00.00-2					
Revised							

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

Manufacturer Ford Motor Company Engine Family KFM1.9V5FFC3

Liter (CID) 1.9L (113) Eng. Type OTTO I-4

Emission Control Sys. (Special Features) ESAC,CFI,EGR,TWC,HOS

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. 9C973	Part No. 9D475	Part No. 5E211
808AR11A/X A/C	Escort 5Dr (7.3)	Auto	2750	E9EF-AA	E8EE-BA	E6AE-BA	E8EC-AC
	3Dr "		2750				
	EXP (5.8)		2750				
	SW (7.3)		2750				
808AR11N/Y NON-A/C	Escort 5Dr (6.6)	Auto	2750	"	"	"	"
	3Dr "		2625				
	EXP (5.3)		2750				
	SW (6.6)		2750				
808AR11A/X A/C	Escort 5Dr (7.3)	M-4	2625	"	"	"	"
	3Dr "	M-4	2625				
	"	M-5	2625				
	SW "	M-5	2750				
907SR00N/Y NON-A/C	Escort 5Dr (6.6)	M-4	2625	"	"	"	"
	"	M-5	2625				
	3Dr "	M-4	2625				
	"	M-5	2625				
	EXP (5.8)	M-5	2750				
	SW (6.6)	M-5	2625				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufactureres 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.

Issue Date	8-03-88	17.00.00.00-3					
Revised							

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Page 3

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

Manufacturer Ford Motor Company Engine Family KFML9V5FFC3

Liter (CID) 1.9L (113) Eng. Type OTTO I-4

Emission Control Sys. (Special Features) ESAC.CFI.EGR.TWC.HOS

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. 9C973	Part No. 9D475	Part No. 5E211
907SR10A/X A/C	Escort 5Dr (7.0)	M-4	2625	E9EF-AB	E8EE-BA	E6AE-BA	E8EC-AC
	3Dr "	M-4	2625				
	" "	M-5	2625				
	SW "	M-5	2750				
907SR10N/Y NON-A/C	Escort 5Dr (6.4)	M-4	2625	"		"	"
	" "	M-5	2625				
	3Dr "	M-4	2625				
	" "	M-5	2625				
	EXP (5.6)	M-5	2750				
	SW (6.4)	M-5	2625				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufactureres 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.

Issue Date	8-03-88	17.00.00.00-4					
Revised	12-07-88						