State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-401 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:

Engine Family		lacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KFM2.9V5FNC9	2.9	(178.6)	Exhaust Gas Recirculation Air injection Pump (M-5 Trans Only)
•		Q	Heated Oxygen Sensor Three-Way Catalyst (Two) (Electronic Port Fuel Injection) No 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:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
0.39	7.0	0.7

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)		
0.18				
0.18	2.1	0.6		

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission

standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "In lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

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 aititude 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

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Maifunction 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 _______ day of August, 1988.

K. D. Drachand, Chief Mobile Source Division

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

	rage 1
Manufacturer Ford Motor Compan	y Engine Family <u>KFM2.9V5FNC9</u>
Evaporative Family 9HM	Engine TypeOTTO SPARK V6
	Liters (CID) 2.9 (178.6)
ABBREVIATIONS	
Ignition System	Exhaust Emissions Control System Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit 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 VEHICLE MODELS: MERKUR SCORPIO 4 DOOR HATCHBAR	AIP-Air Injection Pump AIV-Air Injection Valve DBC-Dual Bed Gatalyst EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control EM-Engine Modification OC-Oxidation Catalyst SS-Oxygen Sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TWC-Three-way Catalyst WUTWC-Warm-up Oxidation Catalyst WUTWC-Warm-up Three-way Catalyst WUTWC-Warm-up Three-way Catalyst CK CK CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection IC-Intercooler MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger
ne: Front X Mid Rear 2: FWD RWD X 4WD Full	
FCS Engine Family K2.9VNC	
Issue Date UUL 2 9 1988 Revised	17.00.00.00-2

E.O. # <u>A-10-401</u>

1989	ΔTR	RESOURCES	BOARD	SIIPPLEMENTAL.	DATA	SHEET

Passenger	Cars <u>X</u> light-D	uty Trucks	M	edium-Duty Veh	icles Gas	s <u>X</u> Dies	sel
Manufactur	er <u>Ford Motor C</u>	ompany		Engine Fam:	ily <u>KFM2.9V5</u>	FNC9	
Liter (CID) 2.9 (178.6)			Eng. Ty	pe <u>OTTO SPARK</u>	V6	
Emission C	ontrol Sys. (Speci	al Feature	es) <u>HOS.</u>	ECU, ESAC, EGR, E	FI,TWC, & AIP	(manual only)
Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System Part No.	EGR Valve	Catalyst
	(Dyno Hp)						
836AR02A	SCORPIO (8.5)	A4X104 (AUTO)	3500 3625	88GB-12A650HB	E67E-9F593-AB	86GB- 9D475-AB	87GB-5E 212-GD
835AR05A	SCORPIO (8.5)	M5X336 (MAN)	3500 3625	88GB-12A650KA	E67E-9F593-AB	86GB- 9D475-AB	87GB-5E 212-GD
Comments: Please refe equipment.	See page one for a er to manufacturere						

Engine Family K2.9VNC

Issue Date MR 29 1988	17.00.00.00-3
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