

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-397
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>
KFM3.8V5FFC2	3.8	(231)	Exhaust Gas Recirculation Heated Oxygen Sensor Dual Three Way Catalyst Three Way Catalyst (Electronic Port 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	0.1

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 9th day of August, 1988.



K. D. Drachand, Chief
Mobile Source Division

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company Engine Family KFM3.8V5FFC2
 Evaporative Family 9HMI Engine Type V6
 Liters (CID) 3.8L (231)

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
 DBC-Dual Bed Catalyst
 EGR-Exhaust Gas Recirculation
 EIC-Electronic Injection Control
 EM-Engine Modification
 OC-Oxidation Catalyst
 OS-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
 WUOC-Warm-up Oxidation Catalyst
 WUTWC-Warm-up Three-way Catalyst

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection or Throttle Body Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 EFI-Electronic Fuel Injection
 IC-Intercooler or Aftercooler
 MFI-Mechanical Fuel Injection
 OBD-On-Board Diagnostics
 TC-Turbocharger

Fuel System

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

VEHICLE MODELS:

CONTINENTAL 54D
 TAURUS SEDAN 54D
 TAURUS S/W 74A
 TAURUS S/W 74D
 SABLE SEDAN 54D
 SABLE S/W 74A
 SABLE S/W 74D

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

FSDS38E.WP

Engine Family K3.8VFC

Issue Date	7/25/88			17.00.00.00-2			
Revised							

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer FORD MOTOR COMPANY Engine Family KFM3.8V5FFC2

Liter (CID) 3.8 (231) Eng. Type V6

Emission Control Sys. (Special Features) ECU,ESAC,CL,HOS,EGR,TWC,EFI,OBD

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (EEC Assy) Part No. -12A650-	Fuel System (Injectors) Part No. -9F593-	EGR Valve Part No. -9D475-	Catalyst Part No.
9-16Q-R00A	TAURUS SEDAN (6.4)	A4-OD	3500	E9SF- -FA	E67E- -BB	E9SE- -AA	E9DC-5F250-FA and E7DC-5F212-BE
	SABLE SEDAN (6.4)		3500 <u>2/</u>				
	TAURUS S/W (8.1)		3625				
	SABLE S/W (8.1)		3625 <u>2/</u>				
9-16Q-R00N	TAURUS SEDAN (5.8)		3500				
	SABLE SEDAN (5.8)		3500				
	TAURUS S/W (7.4)		3625				
	SABLE S/W (7.4)		3625				
9-16R-R00A	CONTINENTAL (8.2)		3875 <u>2/</u>	E9SF- -BA			

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.

2/ Ford elects to test at the next higher ETW

Date of Issue _____ Revisions: _____

cc: 3815.wp

Engine Family K3.8VFC

Issue Date	7/25/88	17.00.00.00-3					
Revised							