

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-687  
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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1997 model-year Ford Motor Company exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Fuel Flexible (M85 Methanol, Gasoline)

Engine Family: VFM3.0V8F2EK Displacement: 3.0 Liters (182 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Three Way Catalytic Converters (two)  
Dual Heated Oxygen Sensors  
Exhaust Gas Recirculation  
Secondary Air Injection  
Sequential Multiport Fuel Injection

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

The TLEV certification exhaust emission standards for this engine family in grams per mile are: (The standards in parentheses are for gasoline.)

<u>Miles</u>	<u>Non-Methane Organic Gases</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.125 (0.25)	3.4 (3.4)	0.4 (0.4)	0.015 (0.015)	10.0 (10.0)
100,000	0.156 (0.31)	4.2 (4.2)	0.6 (0.6)	0.018 (0.018)	n/a

Reactivity Adjustment Factor for NMOG Mass Emission (M85 Methanol Fuel): 0.41

Reactivity Adjustment Factor for NMOG Mass Emission (Gasoline): 0.98

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of the above-mentioned reactivity adjustment factors for 1997 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are: (The values in parentheses are for gasoline.)

<u>Miles</u>	<u>Non-Methane Organic Gases</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.100 (0.08)	1.2 (1.6)	0.1 (0.1)	0.008 (0.001)	5.1 (5.1)
100,000	0.150 (0.09)	1.8 (2.6)	0.2 (0.2)	0.012 (0.002)	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth 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 under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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 vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 Emission Control and Smog Index label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

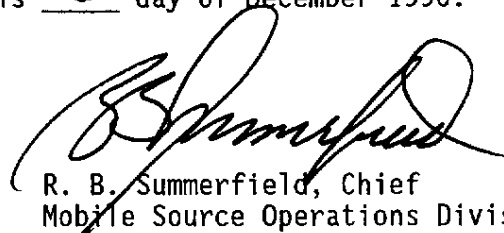
BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(5.1) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty vehicles and Engines").

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 provisions (Title 13, California Code of Regulations, 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 3<sup>rd</sup> day of December 1996.



R. B. Summerfield, Chief  
Mobile Source Operations Division

1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1  
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: FORD MOTOR COMPANY Exh Eng Fam: vFM3.OV8F2EK Evap Fam: VFM1230ALMED  
 Exh Std: CA Tier-1      TLEV X LEV      ULEV      SULEV      ORVR: YES      NO X  
 US EPA Tier-1      TLEV      LEV      ULEV      SULEV      ILEV      CFV       
 All Engine Codes in Engine Family: CA X 49S 50S AB965  
 Veh Class(es): PC X LDT1      LDT2      MDV1      MDV2      MDV3      MDV4      MDV5       
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  
 Fuel Type(s): Dedicated      Flex-Fuel X Dual-Fuel      Bi-Fuel      Gasoline X Diesel       
 CNG      LNG      LPG      M85 X Other (specify)       
 Emiss Test Fuel(s): Indo X CBG X CNG      LPG      M85 X Other (specify)       
 Diesel: 13 CCR 2282      40 CFR 86.113-90      40 CFR 86.113-94       
 Service Accum: Std AMA      Mod AMA X Mfr ADP      Other (specify)       
 NMOG Test Procedure: N/A      Std      Equiv X R/L Test Proc: SHED      Pt Source       
 Engine Configuration: V-6 Displacement: 3.0 /      Liters 182 /      Cubic Inches  
 Valves per Cylinder: 2 Rated HP: 145 @ 5000 RPM (GAS), 155 @ 5000 RPM (METHANOL)  
 Engine: Front X Mid      Rear      Drive: FWD X RWD      4WD-FT      4WD-PT       
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): 2TWC(2), 2HO2S, EGR, AIR, SFI  
 (use abbreviations per SAE J1930 JUN93)

Engine Code also list A/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.)	ETW or Test Wt.	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
710GR05A	TAURUS SEDAN	L4	3750	5.9	F7DF-BB	F7DE-BA	F6DC-DD F6DC-DE
710GR06A	TAURUS SEDAN	L4	3750	5.9	F7DF-BC	F7DE-BA	F6DC-DE
710GR10A	TAURUS SEDAN (Methanol FFV)	L4	3750	5.9	F7DF-BD	F7DE-BA	F6DC-DE