

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-840
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 1999 model-year Ford Motor Company exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type (Certification Fuel): Gasoline (Indolene)

Engine Family: XFMXT04.02GF Displacement: 4.0 Liters (244 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) LEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
3751-5750	50,000	0.100	4.4	0.4	0.018	12.5
	100,000	0.130	5.5	0.5	0.023	n/a

The LEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
3751-5750	50,000	0.095	1.1	0.2	0.002	2.3
	100,000	0.121	1.6	0.2	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 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 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."

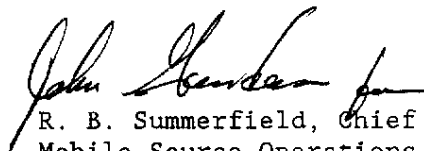
BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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 25 day of August 1998.



R. B. Summerfield, Chief
Mobile Source Operations Division

1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Exh. Eng. Fam.: XFMXT04.02GF Evap. Fam.: XFMXE0120BAE

All Engine Codes in Engine Family: CA_49S___ 50S_XXX_ A8965___ ORVR: Yes___ No_XXX_

Exhaust Std: CA Tier-1___ TLEV___ LEV_XXX_ ULEV___ SULEV___ U.S. EPA ^{CFV:LEV}
_{NLEV:LEV}

Vehicle Class(es): PC___ LDT1___ LDT2_XXX_ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___

Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A,LDT1,MDV1,MDV2,MDV3,MDV4)

Fuel Types: Dedicated Flex-Fuel___ Dual-Fuel___ Bi-Fuel___ Gasoline_XXX_ Diesel___
CNG___ LNG___ LPG___ M85___ Other (specify)_____

Exhaust Emission Test Fuel(s): INDO_XXX_CBG___ CNG___ LPG___ M85___ Other (specify)___
Diesel: 13 CCR 2282___ 40 CFR 86.113-90___ 40 CFR 86.113-94___

Evaporative Emission Test Procedure: California___ Federal_XXX_

Service Accumulation: Std AMA___ Mod AMA___ Mfr ADP_XXX_ Other (specify)_____

NMOG Test Procedure: N/A___ Std_XXX_ Equiv___ R/L Test Procedure: SHED___ Pt.Source_XXX_

Engine Configuration V-6 Displacement: 4.0 Liters 244 Cubic Inches

Valves per Cylinder: 2 Rated HP: 205 @ 5000 RPM

Engine: Front_XXX_ Mid___ Rear___ Drive: Fwd___ RWD_XXX_ 4WD-FT_ 4WD-PT_____

Exhaust ECS (e.g., MFI, EGR, TC, CAC): 2TWC, 2HO2S(2), EGR, SFI
(Use abbreviations per SAE J1930 SEP91)

EngineCode (California)	Vehicle Models	Trans.			Ignition Part No (PCM)	EGR System Part No	Catalytic Converter Part No
		A-Auto M-Man	ETW	DPA			
9NEABAAA	Explorer 4x2	A (L5)	4250	*	XL2F-MA	F77E-FA	XL24-5G218-8A (RH) XL24-5G218-BB (RH - alt XL24-5E214-8A (LH)
9NEABAAA	Explorer 4x4	A (L5)	4500	*	"	"	"
9NEABAAA	Explorer 4x4	A (L5)	4750	*	"	"	"
9NEABAAA	Mountaineer 4x2	A (L5)	4500	*	"	"	"
9NEABAAA	Mountaineer 4x4	A (L5)	4750	*	"	"	"

DPA Summary

Explorer/Mountaineer 4x2 DPA
P225/70R15 Tires 11.9
All Other Tires 12.4

Explorer/Mountaineer 4x4 DPA
All Tires 13.3

Engine Family: XFMXT04.02GF

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Issued: August 14, 1998

Revised:

1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Exh. Eng. Fam.: XFMXT04.02GF Evap. Fam.: XFMXE0120BAE
 All Engine Codes in Engine Family: CA_49S___ 50S_XXX_ AB965___ ORVR: Yes___ No_XXX_
 Exhaust Std: CA Tier-1___ TLEV___ LEV_XXX_ ULEV___ SULEV___ U.S. EPA LEV_XXX_
 Vehicle Class(es): PC___ LDT1___ LDT2_XXX_ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A,LDT1,MDV1,MDV2,MDV3,MDV4)
 Fuel Types: Dedicated Flex-Fuel___ Dual-Fuel___ Bi-Fuel___ Gasoline_XXX_ Diesel___
 CNG___ LNG___ LPG___ M85___ Other (specify)_____
 Exhaust Emission Test Fuel(s): INDO_XXX_ CBG___ CNG___ LPG___ M85___ Other (specify)_____
 Diesel: 13 CCR 2282___ 40 CFR 86.113-90___ 40 CFR 86.113-94___
 Evaporative Emission Test Procedure: California___ Federal_XXX_
 Service Accumulation: Std AMA___ Mod AMA___ Mfr ADP_XXX_ Other (specify)_____
 NMOG Test Procedure: N/A___ Std_XXX_ Equiv___ R/L Test Procedure: SHED___ Pt.Source_XXX_
 Engine Configuration V-6 Displacement: 4.0 Liters 244 Cubic Inches
 Valves per Cylinder: 2 Rated HP: 205 @ 5000 RPM
 Engine: Front_XXX_ Mid___ Rear___ Drive: Fwd___ RWD_XXX_ 4WD-FT_XXX_ 4WD-PT___
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): 2TWC, 2HO2S(2), EGR, SFI
 (Use abbreviations per SAE J1930 SEP91)

EngineCode (California)	Vehicle Models	Trans.			Ignition Part No (PCM)	EGR System Part No	Catalytic Converter Part No
		A-Auto	ETW	DPA			
9NEA BAF	Explorer 4x2	A (L5)	4250	*	XL2F-MC	F77E-FA	XL24-5G218-BA (RH) XL24-5G218-BB (RH - alt.) XL24-5E214-BA (LH)
9NEA BAF	Explorer 4x4	A (L5)	4500	*	"	"	"
9NEA BAF	Explorer 4x4	A (L5)	4750	*	"	"	"
9NEA BAF	Mountaineer 4x2	A (L5)	4500	*	"	"	"
9NEA BAF	Mountaineer 4x4	A (L5)	4750	*	"	"	"

DPA Summary

<u>Explorer/Mountaineer 4x2</u>	<u>DPA</u>
P225/70R15 Tires	11.9
All Other Tires	12.4
<u>Explorer/Mountaineer 4x4</u>	<u>DPA</u>
All Tires	13.3

Engine Family: XFMXT04.02GF

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Issued: October 27, 1998

Revised: