

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-838
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: Transitional Low-Emission Vehicle (TLEV)

Fuel Type (Certification Fuel): Gasoline (Indolene)

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

Exhaust Emission Control Systems and Special Features:

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

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) TLEV 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	0.160	4.4	0.7	0.018	12.5
	100,000	0.200	5.5	0.9	0.023	n/a

The TLEV 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	0.056	1.8	0.1	0.001	5.0
	100,000	0.066	2.3	0.2	0.001	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 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)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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 15th day of July 1998.



R. B. Summerfield, Chief
Mobile Source Operations Division

SUPERSEDED

1999 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exh Eng Fam: XFMXT04.02DN Evap Fam: XFMXE0105BBE
 All Engine Codes in Engine Family: CA X 49S ___ 50S ___ AB965 ___ ORVR: Yes ___ No X
 Exh Std: CA Tier-1 ___ , TLEV X , LEV ___ , ULEV ___ , SULEV ___ , EPA TIER-1 ___
 Veh Class(es): PC ___ LDT1 ___ LDT2 X 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 X Flex Fuel ___ Dual-Fuel ___ Bi-Fuel ___
 Gasoline X Diesel ___ M85 ___ CNG ___ LPG ___ Other (specify) ___
 Exh Emiss Test Fuel(s): Indo X CBG ___ CNG ___ LPG ___ M85 ___ Other (specify) ___
 Diesel: 13 CCR 2282 ___ or 40CFR 86.113-90 ___ or -94 ___
 Evaporative Emission Test Procedure: California ___ Federal X
 Service Accumulation: Std AMA ___ Mod AMA ___ Mfr. ADP X Other (Specify) ___
 NMOG Test Procedure: N/A ___ Std X Equip ___ R/L Test Procedure: SHED ___ Pt Source X
 Engine Configuration: V-6 Displacement: 4.0L (244) Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 160 @ 4200 RPM
 Engine: Front X Mid ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT X
 Exhaust Control System and Special Features: 2TWC, TWC(2), 2HO2S(2), SFI, EGR
 (Use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. Type A4-Automatic M5-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
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9LTMBBA A/N		M5			XL5F-ALA	F87E-AA	XL54-5F250-BO (CC-RH/LH) XL54-5E212-DO (UB)
	MAZDA 4x2 SCS 2DR	"	3750	11.3/12.4"	"	"	"
	MAZDA 4x2 SCS 4DR	"	3875	"	"	"	"
	MAZDA 4x4 RCS	"	3875	13.0/14.3"	"	"	"
	MAZDA 4x4 SCS 2DR	"	4000	"	"	"	"
	MAZDA 4x4 SCS 4DR	"	4250	"	"	"	"
	RANGER 4x2 SCS 2DR	"	3750/3875	11.3/12.4"	"	"	"
	RANGER 4x2 SCS 4DR	"	3875	"	"	"	"
	RANGER 4x4 RCS	"	3875	13.0/14.3"	"	"	"
	RANGER 4x4 RCL	"	3875/4000	"	"	"	"
	RANGER 4x4 SCS 2DR	"	4000	"	"	"	"
	RANGER 4x4 SCS 4DR	"	4250	"	"	"	"

MODELS BELOW EQUIPPED WITH P245/75R16 TIRES

	MAZDA 4x4 RCS	"	3875	12.3/13.5"	"	"	"
	MAZDA 4x4 SCS 2DR	"	4000	"	"	"	"
	MAZDA 4x4 SCS 4DR	"	4250	"	"	"	"
	RANGER 4x4 RCS	"	3875	"	"	"	"
	RANGER 4x4 RCL	"	3875/4000	"	"	"	"
	RANGER 4x4 SCS 2DR	"	4000	"	"	"	"
	RANGER 4x4 SCS 4DR	"	4250	"	"	"	"

• WITH A/C

Engine Family: XFMXT04.02DN
 Issue Date: JUN 06 1998
 Revised: