State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-739
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 1998 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: Gasoline

Engine Family: WFMXV02.0AGA Displacement: 2.0 Liters (121 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter
Heated Oxygen Sensors (two)
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:

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

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

Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.059	1.5	0.1	0.001	5.1
100,000	0.069	2.0	0.1	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 non-methane organic gases (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)(6.2) ("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 14th day of January 1997.

R. B. Summerfield, Chief
Mobile Source Operations Division

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1998 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: WFMXV02.0AGA Evap Fam: WFMXE0115B1E
Exh Std: CA Tier-1___ TLEV X LEV___ ULEV___ SULEV___ ORVR: YES___ NO X
US EPA Tier-1___ ILEV___ CFV___
All Engine Codes in Engine Familiy: 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___ Dual-Fuel___ Bi-Fuel___ Gasoline X Diesel___
CNG___ LNG___ LPG___ M85___ Other (specify)___
Emiss Test Fuel(s): Indo X CBG___ CNG___ LPG___ M85___ Other (specify)___
Diesel: 13 CCR 2282___ 40 CFR 86.113-90___ 40 CFR 86.113-94___
Service Accum: Std AMA X Mod AMA___ Mfr ADP___ Other (specify)___
NMOG Test Procedure: N/A___ Std___ Equiv X R/L Test Proc: SHED___ Pt Source X
Engine Configuration: I-4 Displacement: 2.0 / ___ Liters 121 / ___ Cubic Inches
Valves per Cylinder: 4 Rated HP: 125 @ 5500 RPM
Engine: Front X Mid___ Rear___ Drive: FWD X RWD___ 4WD-FT___ 4WD-PT___
Exhaust ECS (e.g., MFI, EGR, TC, CAC): TWC, HO2S(2), SFI
(use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.)	ETW or Test Wt.	DPA or RLHP @	DPA or RLHP #	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
804PR00 N	CONTOUR 1FA	L4	3125	5.3	4.9	97BB-AGA or	NONE	97BB-BE
A	"	"	3125$	5.8	5.4	" DA		"
N	MYSTIQUE 2FA	"	3250	5.3	4.9	"		"
A	" 2FA	"	3250	5.8	5.4	"		"
804PR05 N	CONTOUR 1FA	L4	3125	5.3	4.9	97BB-DB	NONE	97BB-BE
A	"	"	3125$	5.8	5.4	"		"
N	MYSTIQUE 2FA	"	3250	5.3	4.9	"		"
A	" 2FA	"	3250	5.8	5.4	"		"

N = no A/C
A = A/C

$ Test at next higher ETW

@ Standard tire (P185/70R14)

Optional tire (P205/60R15)

Date Issued: 11-25-96 Revisions:

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1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page ___ of___
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.0AGA
Evap Std: 100K X Useful Life with R/L___ Evap Engine Family: WFMXE0115B1E
Exh Std: Tier-0___ Tier-1 TLEV X LEV___ ULEV___ ZEV___; EPA Tier-0___ Tier-1___
Veh Class(es): PC X LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
Single Cert Std for Multi-Class Eng Fam: ___ (specify: N/A, LDT1, MDV1, ETC.)
Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40 CFR 86.113-90__ or -94__
M85___ CNG___ LPG___ Other (specify)___
Fuel Type(s): Dedicated___ Flex-Fuel___ Dual-Fuel___ Gasoline X Diesel___ M85___
CNG___ LNG___ LPG___ Other (specify)___
Hybrid: Type A___ B___ C___, APU Cycle (e.g., Otto, Diesel, Turbine)___
Engine Configuration: I-4 Displacement: 2.0 /_____Liter_____/_____Cubic Inches
Engine: Front X Mid.___ Rear___ Drive: FWD X RWD___ 4WD-FT___ 4WD-PT___
Exhaust ECS & Special Features (EG., EGR, MFI, TC, CAC): TWC, SFI, HO2S(2)
(Use abbreviations per SAE J1930 Sep 91)

Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECM/PCM) Part No. -12A650-	EGR Syst. Part No -9M444-	Catalyst Part No. -5E211-
2.0L				@ #			
804PR10 N	CONTOUR 1FA	A	3125	5.3 4.9	97BB-DD	NONE	97BB--BE
A	"	"	3125	5.8 5.4	"		"
N	MYSTIQUE 2FA	"	3250	5.3 4.9	"		"
A	"	"	3250	5.8 5.4	"		"

$ Test at next higher ETW

@ Standard tire (P185/70R14)

Optional tire (P205/60R15)

Certification Standards (TLEV)

	50K/100K
NMOG:	0.125/0.256
CO:	3.4/4.2
NOx:	0.4/0.6
EVAP:	3 Day = 2.0 gm
	2 Day = 2.5 gm
	R/L = 0.05 gm
COLD CO:	10.0

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1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page ___ of___
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.0AGA
Evap Std: 100K X Useful Life with R/L___ Evap Engine Family: WFMXE0115B1E
Exh Std: Tier-0___ Tier-1 X TLEV___ LEV___ ULEV___ ZEV___; EPA Tier-0___ Tier-1___
Veh Class(es): PC X LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
Single Cert Std for Multi-Class Eng Fam: ___ (specify: N/A, LDT1, MDV1, ETC.)
Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40 CFR 86.113-90__ or -94__
M85___ CNG___ LPG___ Other (specify)___
Fuel Type(s): Dedicated X Flex-Fuel___ Dual-Fuel___ Gasoline X Diesel___ M85___
CNG___ LNG___ LPG___ Other (specify)___
Hybrid: Type A___ B___ C___, APU Cycle (e.g., Otto, Diesel, Turbine)___
Engine Configuration: I-4 Displacement: 2.0 / ___ Liter ___ / ___ Cubic Inches
Engine: Front X Mid.___ Rear___ Drive: FWD X RWD___ 4WD-FT___ 4WD-PT___
Exhaust ECS & Special Features (EG., EGR, MFI, TC, CAC): VCT, TWC, SFI, HO2S(2)
(Use abbreviations per SAE J1930 Sep 91)

Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECM/PCM) Part No. -12A650-	EGR Syst. Part No -9M444-	Catalyst Part No. -5E211-
2.0L				@ #			
804PR10 N	CONTOUR 1FA	A	3125	5.3 4.9	97BB-DD	NONE	97BB--BE
A	"	"	3125	5.8 5.4	"		"
N	MYSTIQUE 2FA	"	3250	5.3 4.9	"		"
A	"	"	3250	5.8 5.4	"		"
804PR12 N	CONTOUR	A	3125	5.3 4.9	98BB-BNB	NONE	97BB--BE
A	"	"	3125	5.8 5.4	"		"
N	MYSTIQUE	"	3250	5.3 4.9	"		"
A	"	"	3250	5.8 5.4	"		"

$ Test at next higher ETW

@ Standard tire (P185/70R14)

Optional tire (P205/60R15)

Certification Standards (TLEV)

	50K/100K
NMOG:	0.125/0.256
CO:	3.4/4.2
NOx:	0.4/0.6
EVAP:	3 Day = 2.0 gm
	2 Day = 2.5 gm
	R/L = 0.05 gm
COLD CO:	10.0

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PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.0AGA
Evap Std: 100K X Useful Life with R/L___ Evap Engine Family: WFMXE0115B1E
Exh Std: Tier-0___ Tier-1___ TLEV X LEV___ ULEV___ ZEV___; EPA Tier-0___ Tier-1___
Veh Class(es): PC X LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
Single Cert Std for Multi-Class Eng Fam: ___ (specify: N/A, LDT1, MDV1, ETC.)
Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40 CFR 86.113-90___ or -94___
M85___ CNG___ LPG___ Other (specify)___
Fuel Type(s): Dedicated___ Flex-Fuel___ Dual-Fuel___ Gasoline X Diesel___ M85___
CNG___ LNG___ LPG___ Other (specify)___
Hybrid: Type A___ B___ C___, APU Cycle (e.g., Otto, Diesel, Turbine)___
Engine Configuration: I-4 Displacement: 2.0 / ___ Liter 121 / ___ Cubic Inches
Engine: Front X Mid.___ Rear___ Drive: FWD X RWD___ 4WD-FT___ 4WD-PT___
Exhaust ECS & Special Features (EG., EGR, MFI, TC, CAC): TWC, SFI, HO2S(2)
(Use abbreviations per SAE J1930 Sep 91)

Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECM/PCM) Part No. -12A650-	EGR Syst. Part No -9M444-	Catalyst Part No. -5E211-
2.0L				@ #			
804PR00 N	CONTOUR 1FA	A	3125	5.3 4.9	97BB-AGA	NONE	97BB--BE
A	"	"	3125$	5.8 5.4	" or DA		"
N	MYSTIQUE 2FA	"	3250	5.3 4.9	"		"
A	"	"	3250	5.8 5.4	"		"
804PR05 N	CONTOUR 1FA	A	3125	5.3 4.9	97BB-DB		97BB--BE
A	"	"	3125$	5.8 5.4	"		"
N	MYSTIQUE 2FA	"	3250	5.3 4.9	"		"
A	"	"	3250	5.8 5.4	"		"
804PR06 N	CONTOUR 1FA	A	3125	5.3 4.9	97BB-DC		97BB--BE
A	"	"	3125$	5.8 5.4	"		"
N	MYSTIQUE 2FA	"	3250	5.3 4.9	"		"
A	"	"	3250	5.8 5.4	"		"

$ Test at next higher ETW

@ Standard tire (P185/70R14)

Optional tire (P205/60R15)

Certification Standards (TLEV)

	50K/100K
NMOG:	0.125/0.256
CO:	3.4/4.2
NOx:	0.4/0.6
EVAP:	3 Day = 2.0 gm
	2 Day = 2.5 gm
	R/L = 0.05 gm
COLD CO:	10.0

ENGINE FAMILY: WFMXV02.0AGA
ISSUED: 11-25-96
REVISED: 1-14-97

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PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.0AGA
Evap Std: 100K X Useful Life with R/L X Evap Engine Family: WFMXE0115B1E
Exh Std: Tier-0___ Tier-1 _ TLEV X LEV___ ULEV___ ZEV___; EPA Tier-0___ Tier-1___
Veh Class(es): PC_X_ LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
Single Cert Std for Multi-Class Eng Fam: ___ (specify: N/A, LDT1, MDV1, ETC.)
Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40 CFR 86.113-90__ or -94__
M85___ CNG___ LPG___ Other (specify)_____
Fuel Type(s): Dedicated___ Flex-Fuel___ Dual-Fuel___ Gasoline X Diesel___ M85___
CNG___ LNG___ LPG___ Other (specify)_____
Hybrid: Type A___ B___ C___, APU Cycle (e.g., Otto, Diesel, Turbine)_____
Engine Configuration: I-4 Displacement: 2.0 /_____Liter_____/_____Cubic Inches
Engine: Front X Mid.___ Rear___ Drive: FWD X RWD___ 4WD-FT___ 4WD-PT__
Exhaust ECS & Special Features (EG., EGR, MFI, TC, CAC): VCT, TWC, SFI, HO2S(2)
(Use abbreviations per SAE J1930 Sep 91)

Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECM/PCM) Part No. -12A650-	EGR Syst. Part No -9M444-	Catalyst Part No. -5E211-
2.0L				@ #			
804NR00 N	CONTOUR	A	3125	5.3 4.9	F8PF-ALA	NONE	97BB--BE
A	"	"	3125	5.8 5.4	"		"
N	CONTOUR NG	"	3375	5.3 4.9	"		"
A	"	"	3375@	5.8 5.4	"		"
804NR10 N	CONTOUR	A	3125	5.3 4.9	F8PF-ALB	NONE	97BB--BE
A	"	"	3125	5.8 5.4	"		"
N	CONTOUR NG	"	3375	5.3 4.9	"		"
A	"	"	3375@	5.8 5.4	"		"

NG Natural Gas Conversion at aftermarket manufacturers

$ Test at next higher ETW

@ Standard tire (P185/70R14)(P195/65R14 on NG conversion)

Optional tire (P205/60R15)

Certification Standards (TLEV)

	50K/100K
NMOG:	0.125/0.256
CO:	3.4/4.2
NOx:	0.4/0.6
EVAP:	3 Day = 2.0 gm
	2 Day = 2.5 gm
	R/L = 0.05 gm
COLD CO:	10.0

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1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page ___ of___
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.0AGA
Evap Std: 100K X Useful Life with R/L X Evap Engine Family: WFMXE0115B1E
Exh Std: Tier-0___ Tier-1___ TLEV X LEV___ ULEV___ ZEV___; EPA Tier-0___ Tier-1___
Veh Class(es): PC_X_ LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
Single Cert Std for Multi-Class Eng Fam: ___ (specify: N/A, LDT1, MDV1, ETC.)
Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40 CFR 86.113-90__ or -94__
M85___ CNG___ LPG___ Other (specify)___
Fuel Type(s): Dedicated___ Flex-Fuel___ Dual-Fuel___ Gasoline X Diesel___ M85___
CNG___ LNG___ LPG___ Other (specify)___
Hybrid: Type A___ B___ C___, APU Cycle (e.g., Otto, Diesel, Turbine)___
Engine Configuration: I-4 Displacement: 2.0 /_____Liter_____/_____Cubic Inches
Engine: Front X Mid.___ Rear___ Drive: FWD X RWD___ 4WD-FT___ 4WD-PT__
Exhaust ECS & Special Features (EG., EGR, MFI, TC, CAC): _ , TWC, SFI, HO2S (2)
(Use abbreviations per SAE J1930 Sep 91)

Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECM/PCM) Part No. -12A650-	EGR Syst. Part No -9M444-	Catalyst Part No. -5E211-
2.0L				@ #			
804PR10 N	CONTOUR 1FA	A	3125	5.3 4.9	97BB-DD	NONE	97BB--BE
A	"	"	3125	5.8 5.4	"		"
N	MYSTIQUE 2FA	"	3250	5.3 4.9	"		"
A	"	"	3250	5.8 5.4	"		"
804PR12 N	CONTOUR	A	3125	5.3 4.9	98BB-BNB	NONE	97BB--BE
A	"	"	3125	5.8 5.4	"		"
N	MYSTIQUE	"	3250	5.3 4.9	"		"
A	"	"	3250	5.8 5.4	"		"
804PR11 N	CONTOUR	A	3125	5.3 4.9	98BB-BNA	NONE	97BB--BE
A	"	"	3125	5.8 5.4	"		"
N	MYSTIQUE	"	3250	5.3 4.9	"		"
A	"	"	3250	5.8 5.4	"		"
N	CONTOUR NG	"	3375	5.3 4.9	"		"
A	" NG	"	3375@	5.8 5.4	"		"

NG Natural Gas Conversion at aftermarket manufacturers

$ Test at next higher ETW

@ Standard tire (P185/70R14)(P195/65R14 on NG conversion)

Optional tire (P205/60R15)

Certification Standards (TLEV)

	50K/100K
NMOG:	0.125/0.256
CO:	3.4/4.2
NOx:	0.4/0.6
EVAP:	3 Day = 2.0 gm
	2 Day = 2.5 gm
	R/L = 0.05 gm
COLD CO:	10.0