

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:

<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	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:

<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	0.059	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).

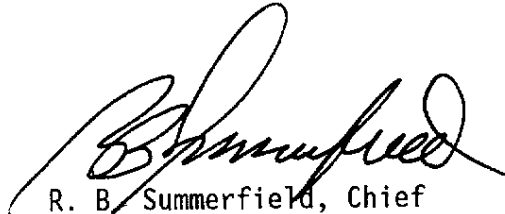
BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 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

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 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 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 Equip 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	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
804PR00	N CONTOUR 1FA	L4	3125	@ #	97BB-AGA or	NONE	97BB-BE
	N " "	"	3125\$	5.3 4.9	" DA		"
	N MYSTIQUE 2FA	"	3250	5.8 5.4	"		"
	A " 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
	N " "	"	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)

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): ___ FWC, 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.	EGR Syst. Part No	Catalyst Part No.
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

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
 Fuel Type(s): M85 CNG LPG Other (specify)
 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

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 REV ; 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 21 / 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

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.0AGA
 Evap Std: 100K Useful Life with R/L Evap Engine Family: WFMXE0115B1E
 Exh Std: Tier-0 ___ Tier-1 ___ TLEV LEV ___ ULEV ___ ZEV ___; EPA Tier-0 ___ Tier-1 ___
 Veh Class(es): PC 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 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 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 Mid. ___ Rear ___ Drive: FWD 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.	EGR Syst. Part No	Catalyst Part No.
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

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

Manufacturer FORD MOTOR COMPANY Eng. Family WFMKV02.0AGA
 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.	EGR Syst. Part No.	Catalyst Part No.
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