File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-683
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:

Fuel Type: Gasoline

Engine Family: VFM2.0VJG1EK Displacement: 2.0 Liters (121 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Three Way Catalytic Converter
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 certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
50,000	0.25	3.4	0.4	10.0
100,000	0.31	4.2	0.6	n/a

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

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
50,000	0.11	1.5	0.2	6.5
100,000	0.12	2.1	0.3	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 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

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 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 11th day of July 1996.

Raphael Susnowitz

for R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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

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Manufacturer FORD MOTOR COMPANY Eng. Family VFM2.0VJG1EK
Evap Std: 50K X Useful Life with R/L___ Evap Engine Family: VFM1045AYPAB
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___ 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): EGR, 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				@ #			
704SR00 N	CONTOUR 1FA	A	3125	5.3 4.9	97BB-ANA	948F--BA	94BB--FK
A	"	"	3125	5.8 5.4	"	"	"
N	MYSTIQUE 2FA	"	3250	5.3 4.9	"	"	"
A	"	"	3250	5.8 5.4	"	"	"
703SR00 N	CONTOUR 1FA	M	3125	5.4 5.4	97BB-ALA	948F--BA	94BB--FK
A	"	"	3125	5.9 5.9	"	"	"
N	MYSTIQUE 2FA	"	3125	5.4 5.4	"	"	"
A	"	"	3250	5.9 5.9	"	"	"
704SR05 N	CONTOUR 1FA	A	3125	5.3 4.9	97BB-ANB	948F--BA	94BB--FK
A	"	"	3125	5.8 5.4	"	"	"
N	MYSTIQUE 2FA	"	3250	5.3 4.9	"	"	"
A	"	"	3250	5.8 5.4	"	"	"
703SR05 N	CONTOUR 1FA	M	3125	5.4 5.4	97BB-ALB	948F--BA	94BB--FK
A	"	"	3125	5.9 5.9	"	"	"
N	MYSTIQUE 2FA	"	3125	5.4 5.4	"	"	"
A	"	"	3250	5.9 5.9	"	"	"

@ Standard tire (P185/70R14)

Optional tire (P205/60R15)

Certification Standards

	50K/100K
NMHC:	0.25/0.31
CO:	3.4/4.2
NOx:	0.4/0.6
EVAP:	2.0
COLD CO:	10.0

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page ___ of ___
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family VFM2.0VJG1EK
Evap Std: 50K X Useful Life with R/L___ Evap Engine Family: VFM1045AYPAB
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___ 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): EGR, 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				#			
704NR00 N	CONTOUR 1FA	A	3375	4.6	F7PF-BA	948F--BA	94BB--FK
A	"	"	3375@	5.1	"	"	"

THIS CALIB. IS INTENDED FOR CNG CONVERSION

Standard tire (P195/65R14)

Certification Standards

	50K/100K
NMHC:	0.25/0.31
CO:	3.4/4.2
NOx:	0.4/0.6
EVAP:	2.0
COLD CO:	10.0

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page ___ of___
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Manufacturer FORD MOTOR COMPANY Eng. Family VFM2.0VJG1EK
Evap Std: 50K X Useful Life with R/L___ Evap Engine Family: VFM1045AYPAB
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___ 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): EGR, TWC, SFI, HO2S(2)
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2.0L				#	*		
704NR00 N	CONTOUR 1FA	A	3375	4.6	F7PF-BA	948F--BA	94BB--FK
A	"	"	3375@	5.1	"	"	"
2.0L				@ *			
704SR10 N	CONTOUR 1FA	A	3125	5.3 4.9	97BB-ANC	94AF--BA	94BB--FK
A	"	"	3125	5.8 5.4	"	"	"
N	MYSTIQUE 2FA	"	3250	5.3 4.9	"	"	"
A	"	"	3250	5.8 5.4	"	"	"

@ Base tire (P185/70R14)
* Optional tire (P205/60R15)
# Standard tire (P195/65R14)

Certification Standards

	50K/100K
NMHC:	0.25/0.31
CO:	3.4/4.2
NOx:	0.4/0.6
EVAP:	2.0
COLD CO:	10.0