

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-637
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 1996 model-year Ford Motor Company exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TFM2.0VJG1EK 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:

| <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Carbon Monoxide (20°F)</u> |
|--------------|---------------------------------|------------------------|------------------------|-------------------------------|
| 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:

| <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Carbon Monoxide (20°F)</u> |
|--------------|---------------------------------|------------------------|------------------------|-------------------------------|
| 50,000 | 0.07 | 0.8 | 0.2 | 5.3 |
| 100,000 | 0.08 | 1.1 | 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 gas (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 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.

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 1st day of August 1995.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1 of 2
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family TFM2.0VJG1EK
 Evap Std: 50K X Useful Life with R/L Evap Engine Family: TFM1045AYPAB
 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 (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 | | | | | | | |
| 604PR05 | N CONTOUR 1FA | A | 3125 | 5.7 | 96BB-DB | 948F--BA | 94BB--FH |
| | A " " | " | 3125 | 6.3 | " | " | " |
| | N MYSTIQUE 2FA | " | 3250 | 5.7 | " | " | " |
| | A " " | " | 3250 | 6.3 | " | " | " |
| 603PR05 | N CONTOUR 1FA | M | 3125 | 5.8 | 96BB-BB | 948F--BA | 94BB--FH |
| | A " " | " | 3125 | 6.4 | " | " | " |
| | N MYSTIQUE 2FA | " | 3125 | 5.8 | " | " | " |
| | A " " | " | 3250 | 6.4 | " | " | " |
| 604PR06 | N CONTOUR 1FA | A | 3125 | 5.3 | 96BB-DC | 948F--BA | 94BB--FH |
| | A " " | " | 3125 | 5.8 | 96BB-DD(alt) | " | " |
| | N MYSTIQUE 2FA | " | 3250 | 5.3 | " | " | " |
| | A " " | " | 3250 | 5.8 | " | " | " |
| 603PR06 | N CONTOUR 1FA | M | 3125 | 5.4 | 96BB-BC | 948F--BA | 94BB--FH |
| | A " " | " | 3125 | 5.9 | 96BB-BD(alt) | " | " |
| | N MYSTIQUE 2FA | " | 3125 | 5.4 | " | " | " |
| | A " " | " | 3250 | 5.9 | " | " | " |

@ Standard tire (P185/70R14) shown

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

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family TFM2.0VJG1EK
 Evap Std: 50K X Useful Life with R/L _____ Evap Engine Family: TFM1045AYPAB
 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 (eg., EGR, MFI, TC, CAC): EGR, TWC, SFI, HO2S (Z)
 (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 | | | | | | | |
| 604PR10 N | CONTOUR 1FA | A | 3125 | 5.3 | 96BB-DB | 948F--BA | 94BB--FH |
| A | " | " | 3125 | 5.8 | " | " | " |
| N | MYSTIQUE 2FA | " | 3250 | 5.3 | " | " | " |
| A | " | " | 3250 | 5.8 | " | " | " |
| 603PR10 N | CONTOUR 1FA | M | 3125 | 5.4 | 96BB-BB | 948F--BA | 94BB--FH |
| A | " | " | 3125 | 5.9 | " | " | " |
| N | MYSTIQUE 2FA | " | 3125 | 5.4 | " | " | " |
| A | " | " | 3250 | 5.9 | " | " | " |

@ Standard tire (P185/70R14) shown

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

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page ___ of ___
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family TFM2.0VJG1EK
Evap Std: 50K_X Useful Life with R/L ___ Evap Engine Family: TFM1045AYPAB
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 (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 | | | | | | | |
| 604PR12 | N CONTOUR 1FA | A | 3125 | 5.3 | 96BB-DF | 948F--BA | 94BB--FH |
| | A " | " | 3125 | 5.8 | " | " | " |
| | N MYSTIQUE 2FA | " | 3250 | 5.3 | " | " | " |
| | A " | " | 3250 | 5.8 | " | " | " |
| 603PR12 | N CONTOUR 1FA | M | 3125 | 5.4 | 96BB-BF | 948F--BA | 94BB--FH |
| | A " | " | 3125 | 5.9 | " | " | " |
| | N MYSTIQUE 2FA | " | 3125 | 5.4 | " | " | " |
| | A " | " | 3250 | 5.9 | " | " | " |
| 604PR11 | N CONTOUR 1FA | A | 3125 | 5.3 | 96BB-DF | 948F--BA | 94BB--FK |
| | A " | " | 3125 | 5.8 | " | " | " |
| | N MYSTIQUE 2FA | " | 3250 | 5.3 | " | " | " |
| | A " | " | 3250 | 5.8 | " | " | " |
| 603PR11 | N CONTOUR 1FA | M | 3125 | 5.4 | 96BB-BF | 948F--BA | 94BB--FK |
| | A " | " | 3125 | 5.9 | " | " | " |
| | N MYSTIQUE 2FA | " | 3125 | 5.4 | " | " | " |
| | A " | " | 3250 | 5.9 | " | " | " |

@ Standard tire (P185/70R14) shown

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

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family TFM2.0VJG1EK
 Evap Std: 50K X Useful Life with R/L ___ Evap Engine Family: TFM1045AYPAB
 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 (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 604NR00 N A | CONTOUR 1FA " | A " | 3375 3375* | 4.6 5.1 | 96BB-EA " | 948F--BA " | 94BB--FH " |

* Test at next higher ETW
 @ 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

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page ___ of ___
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family TFM2.0VJG1EK
 Evap Std: 50K X Useful Life with R/L ___ Evap Engine Family: TFM1045AYPAB
 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 (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 | | | | | | | |
| 604NR00 N | CONTOUR 1FA | A | 3375 | 4.6 | F6PF-EA | 948F--BA | 94BB--FH |
| A | " | " | 3375* | 5.1 | " | " | " |
| 604NR10 N | CONTOUR 1FA | A | 3375 | 4.6 | F6PF-EB | 948F--BA | 94BB--FH |
| A | " | " | 3375* | 5.1 | " | " | " |
| * Test at next higher ETW | | | | | | | |
| @ Standard tire (P195/65R14) | | | | | | | |
| Certification Standards | | | | | | | |
| <u>50K/100K</u> | | | | | | | |
| NMHC: | 0.25/0.31 | | | | | | |
| CO: | 3.4/4.2 | | | | | | |
| NOx: | 0.4/0.6 | | | | | | |
| EVAP: | 2.0 | | | | | | |
| COLD CO: | 10.0 | | | | | | |