

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-710
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 Ford Motor Company 1997 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: VFM4.028G1GK Displacement: 4.0 Liters (244 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converters (two)
Dual Heated Oxygen Sensors
Heated Oxygen Sensor
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>Loaded Vehicle Weight (lbs.)</u> | <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Carbon Monoxide (20°F)</u> |
|-------------------------------------|--------------|---------------------------------|------------------------|------------------------|-------------------------------|
| 3751-5750 | 50,000 | 0.32 | 4.4 | 0.7 | 12.5 |
| | 100,000 | 0.40 | 5.5 | 0.97 | n/a |

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

| <u>Loaded Vehicle Weight (lbs.)</u> | <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Carbon Monoxide (20°F)</u> |
|-------------------------------------|--------------|---------------------------------|------------------------|------------------------|-------------------------------|
| 3751-5750 | 50,000 | 0.08 | 1.2 | 0.1 | 3.9 |
| | 100,000 | 0.08 | 1.4 | 0.14 | 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.).

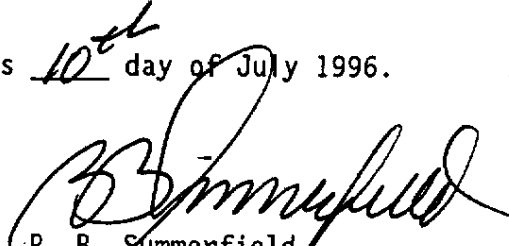
FORD MOTOR COMPANY

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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 10th day of July 1996.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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

E.O.# A-10-710

Mfg. FORD MOTOR COMPANY Exhaust Engine Family: VFM4.028G1GK
 Engine Code Types: CA X 49S 50S Evaporative Emissions Family: VFM1045AVPRA
 Exh Std: Tier-0 Tier-1 X TLEV LEV ULEV ZEV EPA TIER-0 TIER-1
 Evap Std: 50K X Useful Life with R/L In-Use Exh Std: Full In Use X Alt In Use
 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)
 Exh Cert Fuel(s): Indo X Ph2 Diesel: 13 CCR 2282 or 40CFR 86.113-90 or -94
 M85 CNG LPG Other (specify)
 Fuel Type(s): Dedicated Flex Fuel Dual-Fuel
 Gasoline X Diesel M85 CNG LPG Other (specify)
 Hybrid: Type A B C , APU Cycle (eg., Otto, Diesel, Turbina)
 Engine Config 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
 Exhaust Control System and Special Features Service ACCYM: AMA
TWC(2), 2HO2S, HO2S, EGR, SFI
 (Use abbreviations per SAE J1930 SEP91)

| Engine Code (also list CA/49ST/50ST) | Vehicle Models (if coded see attachment) | Trans. Type A-Automatic M-Manual | ETW or Test Wt | DPA or RLHP | Ignition (ECM/PCM) Part No. | EGR System Part No. | Catalytic Converter Part No. |
|--|--|--|----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
| 758NR00A/N | Aerostar AWD EWS | A5 | 4500 4500 | 11.5 12.7* | F79F-EA/ F79C-EA | F69E-AA | F79A-AAA |
| 758QR00A/N | Aerostar 2WD EWS | A5 | 4250 4250 | 10.2 12.7* | F79F-EA/ F79C-EA | " | " |

* with air conditioning

ENGINE FAMILY: VFM4.028G1GK
ISSUED: 5-13-96
REVISED: 7-9-96

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

E.O.# A-10-710

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: VFM4.028G1GK
 Engine Code Types: CA X 49S___ 50S___ Evaporative Emissions Family: VFM1045AYPBA
 Exh Std: Tier-0___ Tier-1 X TLEV___ LEV___ ULEV___ ZEV___ EPA TIER-0___ TIER-1___
 Evap Std: 50K X Useful Life with R/L___ In-Use Exh Std: Full In Use X Alt In Use___
 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)
 Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___
 M85___ CNG___ LPG___ Other (specicy)
 Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
 Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___
 Hybrid: Type A___ B___ C___, APU Cycle (eg., Otto, Diesel, Turbine)___
 Engine Config 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___
 Exhaust Control System and Special Features TWC(2),SFI,2HO2S,EGR,H02S
 (Use abbreviations per SAE J1930 SEP91)

| Engine Code (also list CA/49ST/50ST) | Vehicle Models (if coded see attachment) | Trans. Type A-Automatic M-Manual | ETW or Test Wt | DPA or RLHP | Ignition (ECM/PCM) Part No. | EGR System Part No. | Catalytic Converter Part No. |
|--|--|--|----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
| 758NR05A/N | | A5 | | | F79F-EB | F69E-AA | F79A-AAA |
| | Aerostar AWD EWS | | 4500 4500 | 11.5 12.7* | | | |
| 758QR05A/N | | A5 | | | F79F-FB | " | " |
| | Aerostar 2WD EWS | | 4250 4250 | 10.2 12.7* | | | |

* with air conditioning

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 Evap Std: 50K X Useful Life with R/L___ In-Use Exh Std: Full In Use X Alt In Use___
 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)
 Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___
 M85___ CNG___ LPG___ Other (specicy)
 Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
 Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___
 Hybrid: Type A___ B___ C___, APU Cycle (eg., Otto, Diesel, Turbine)___
 Engine Config 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___
 Exhaust Control System and Special Features TWC(2), SFL, HO2S, EGR, 2#025
 (Use abbreviations per SAE J1930 SEP91)

| Engine Code (also list CA/49ST/50ST | Vehicle Models (if coded see attachment) | Trans. Type A-Automatic M-Manual | ETW or Test Wt | DPA or RLHP | Ignition (ECM/PCM) Part No. | EGR System Part No. | Catalytic Converter Part No. |
|---|--|--|----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
| 758NR10A/N | | A5 | | | F79F-EC | F69E-AA | F79A-AAA |
| | Aerostar AWD EWS | | 4500 4500 | 11.5 12.7* | | | |
| 758QR10A/N | | A5 | | | F79F-FC | " | " |
| | Aerostar 2WD EWS | | 4250 4250 | 10.2 11.2* | | | |

* with air conditioning

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 Evap Std: 50K X Useful Life with R/L___ In-Use Exh Std: Full In Use X Alt In Use___
 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)
 Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___
 M85___ CNG___ LPG___ Other (specify)
 Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
 Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___
 Hybrid: Type A___ B___ C___, APU Cycle (eg., Otto, Diesel, Turbine)___
 Engine Config 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___
 Exhaust Control System and Special Features TWC(2) SFI 2HO2S. EGR HOLS
 (Use abbreviations per SAE J1930 SEP91)

| Engine Code (also list CA/49ST/50ST | Vehicle Models (if coded see attachment) | Trans. Type A-Automatic M-Manual | ETW or Test Wt | DPA or RLHP | Ignition (ECM/PCM) Part No. | EGR System Part No. | Catalytic Converter Part No. |
|---|--|--|----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
| 758NR11A/N | | A5 | | | F79F-ED | F69E-AA | F79A-AAA |
| | Aerostar AWD EWS | | 4500 4500 | 11.5 12.7* | | | |
| 758QR11A/N | | A5 | | | F79F-FD | " | " |
| | Aerostar 2WD EWS | | 4250 4250 | 10.2 11.2* | | | |

* with air conditioning