

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-624-B
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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That Ford Motor Company 1995 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: SFM4.028G1EK Displacement: 4.0 Liters (244 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converters (two)
Dual Heated Oxygen Sensors
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>
3751-5750	50,000	0.32	4.4	0.7
	100,000	0.40	5.5	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>
3751-5750	50,000	0.11	1.6	0.2
	100,000	0.12	1.9	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 listed vehicle models are certified to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles at the request of the manufacturer based on the assumption that those standards and test procedures in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles" will be amended with the result that the data submitted by the manufacturer for the listed vehicle models would be sufficient to satisfy the requirements applicable to 1995 and subsequent model-year vehicles. The Air Resources Board approved such amendments at a hearing conducted on February 10, 1994. The certification of the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles is CONDITIONAL on such amendments becoming effective by January 31, 1995. If such amendments do not become effective by January 31, 1995, the listed vehicle models shall be deemed certified 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" unless the manufacturer demonstrates, to the Executive Officer's satisfaction, that the listed vehicle models comply with the requirements for running loss and useful life standards and test procedures in effect on the date of this certification order.

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 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.).

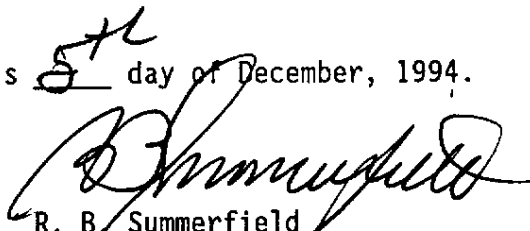
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

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 ^{5th} day of December, 1994.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: SFM4.028G1EK

Evap Standard: 50K ____ Useful Life with R/L X ____ Evap Family: SFM1240AYM1B

Exhaust Std: Tier 0 ____ Tier 1 X TLEV ____ LEV ____ ULEV ____ ZEV ____ ; EPA Tier 0 ____ Tier 1 ____

Vehicle 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 ____ Ph2 X 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 Config: V6 Liter (CID): 4.0 (244)

Engine: Front X Mid. ____ Rear ____ Drive: FWD ____ RWD X 4WD-FT ____ 4WD-PT ____

Exhaust ECS & Special Features: SFI/HO₂S/EGR/TWC(2)
(Use abbreviations per SAE J1930, Sep 91)

Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	Catalyst Part No.
(California)		A-Automatic M-Manual					
558P R00A/N	Explorer 4x2	A4			F5TF-ASA	F3DE-AA	F57A-HC/ F57A-HD
	2 Door SWB		4250 4250*	10.9 12.0			
	4 Door LWB		4500 4500*	11.1 12.2			

* with air conditioning

ENGINE FAMILY: SFM4.028G1EK
ISSUED:
REVISED: **NOV 22 1994**

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: SFM4.028G1EK

Evap Standard: 50K ___ Useful Life with R/L X Evap Family: SFM1240AYM1B

Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 ___

Vehicle 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 ___ Ph2 X 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 Config: V6 Liter (CID): 4.0 (244)

Engine: Front X Mid. ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT X

Exhaust ECS & Special Features: SFI/HO₂S/EGR/TWC(2)
(Use abbreviations per SAE J1930, Sep 91)

Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	Catalyst Part No.
(California)		A-Automatic M-Manual					
558R R00A/N	Explorer 4x4	A4			F5TF-ATA	F3DE-AA/ F37E-CA	F57A-HC/ F57A-HD
	2 Door SWB		4500 4500*	12.0 13.2			
	4 Door LWB		4750 4750*	11.1# 12.2##			

* with air conditioning
12.0 with P225/70R15 tire
13.2 with P225/70R15 tire

ENGINE FAMILY: SFM4.028G1EK
ISSUED: NOV 22 1994
REVISED:

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1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: SFM4.028G1EK

Evap Standard: 50K ___ Useful Life with R/L X ___ Evap Family: SFM1240AYM1B

Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 ___

Vehicle 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 ___ Ph2 X 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 Config: V6 Liter (CID): 4.0 (244)

Engine: Front X Mid. ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT X

Exhaust ECS & Special Features: SFI/RO₂S/EGR/TWC(z)
(Use abbreviations per SAE J1930, Sep 91)

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	Catalyst Part No.
557R R00A/N	Explorer 4x2	M5			F57F-BMA	F3DE-AA/ F37E-CA	F57A-HC/ F57A-HD
	2 Door SWB		4000 4000*	10.9 12.0			
	4 Door LWB		4500 4500*	11.1 12.2			
	Explorer 4x4						
	2 Door SWB		4250 4250*	12.0 13.2			
	4 Door LWB		4500 4500*	12.0 13.2			

* with air conditioning

ENGINE FAMILY: SFM4.028G1EK
ISSUED: **NOV 22 1994**
REVISED:

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1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: SFM4.028G1EK

Evap Standard: 50K ____ Useful Life with R/L X Evap Family: SFM1240AYM1B

Exhaust Std: Tier 0 __ Tier 1 X TLEV __ LEV __ ULEV __ ZEV __ ; EPA Tier 0 __ Tier 1 __

Vehicle 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 __ Ph2 X 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 Config: V6 Liter (CID): 4.0 (244)

Engine: Front X Mid. __ Rear __ Drive: FWD __ RWD X 4WD-FT __ 4WD-PT X

Exhaust ECS & Special Features: SFI/HO₂S/EGR/TWC(2)
(Use abbreviations per SAE J1930, Sep 91)

Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	Catalyst Part No.
(California)		A-Automatic M-Manual					
558R R05A/N	Explorer 4x4	A4			F5TF-ATB	F3DE-AA/ F37E-CA	F57A-HC/ F57A-HD
	2 Door SWB		4500 4500*	12.0 13.2			
	4 Door LWB		4750 4750*	11.1# 12.2##			
	Explorer 4x2		4250	10.9			
	2 Door SWB		4250*	12.0			
	4 Door LWB		4500 4500*	11.1 12.2			

* with air conditioning
12.0 with P225/70R15 tire
13.2 with P225/70R15 tire

ENGINE FAMILY: SFM4.028G1EK
ISSUED: DEC 01 1994
REVISED:

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R/C 4.0-112

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: SFM4.028G1EK

Evap Standard: 50K ___ Useful Life with R/L X ___ Evap Family: SFM1240AYM1B

Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 ___

Vehicle 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 ___ Ph2 X 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 Config: V6 Liter (CID): 4.0 (244)

Engine: Front X Mid. ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT X

Exhaust ECS & Special Features: SFI/HO₂S/EGR/TWC⁽²⁾
(Use abbreviations per SAE J1930, Sep 91)

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	Catalyst Part No.
557R R05A/N	Explorer 4x2	M5			F57F-BMC	F3DE-AA/ F37E-CA	F57A-HC/ F57A-HD
	2 Door SWB		4000 4000*	10.9 12.0			
	4 Door LWB		4500 4500*	11.1 12.2			
	Explorer 4x4						
	2 Door SWB		4250 4250*	12.0 13.2			
	4 Door LWB		4500 4500*	12.0 13.2			

* with air conditioning

ENGINE FAMILY: SFM4.028G1EK
ISSUED: DEC 09 1994
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R/C 4.0-112

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: SFM4.028G1EK
 Evap Standard: 50K ___ Useful Life with R/L X Evap Family: SFM1240AYM1B
 Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 ___
 Vehicle 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 ___ Ph2 X 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 Config: V6 Liter (CID): 4.0 (244)
 Engine: Front X Mid. ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT X
 Exhaust ECS & Special Features: SFI/HO₂S/EGR/TWC(2)
 (Use abbreviations per SAE J1930, Sep 91)

Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	Catalyst Part No.
(California)		A-Automatic M-Manual					
558R R10A/N	Explorer 4x4	A4			F5TF-ATC	F3DE-AA/ F37E-CA	F57A-HC/ F57A-HD
	2 Door SWB		4500 4500*	12.0 13.2			
	4 Door LWB		4750 4750*	11.1# 12.2##			
	Explorer 4x2						
	2 Door SWB		4250 4250*	10.9 12.0			
	4 Door LWB		4500 4500*	11.1 12.2			

* with air conditioning
 # 12.0 with P225/70R15 tire
 ## 13.2 with P225/70R15 tire

ENGINE FAMILY: SFM4.028G1EK
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