

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-618  
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: SFM4.018G1EK 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
- On-Board Diagnostic II

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards (alternative in-use compliance standards in parentheses) 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>
0-3750	50,000	0.25 (0.32)	3.4 (5.2)	0.4 (n/a)
	100,000	0.31 (n/a)	4.2 (n/a)	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>
0-3750	50,000	0.09	0.7	0.2
	100,000	0.10	0.9	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, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance 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 the submitted alternative in-use compliance plan satisfies the requirement that a maximum of 60 percent of the manufacturer's projected sales of 1995 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced 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).

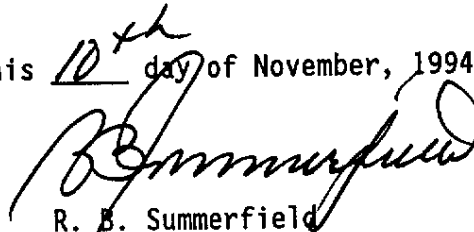
BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the 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)(6.1) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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 10<sup>th</sup> day of November, 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: SFM4.018G1EK

Evap Standard: 50K  Useful Life with R/L \_\_\_\_\_ Evap Family: SFM1045AYPOA

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

Vehicle Class(es): PC  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)

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 Config: V6      Liter (CID): 4.0 (244)

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

Exhaust ECS & Special Features: SFI/HO<sub>2</sub>S/EGR/TWC(2)/ZH025/08P2  
(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.
558S R00A/N	Ranger 4x2 RC SWB	A4	3500	11.2	F57F-BJA	F3DE-AA/ F37E-CA	F57A-BC/ F57A-BD
			3625*	12.3			
			3625	11.2			
			3625*	12.3			
	Mazda B4000 4x2 RC SWB		3625	11.2			
			3625*	12.3			
			3625	11.2			
			3750*	12.3			

\* with air conditioning

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

Manufacturer: Ford Motor Company      Exhaust Engine Family: SFM4.018G1EK

Evap Standard: 50K X    Useful Life with R/L \_\_\_\_\_    Evap Family: SFM1045AYPOA

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

Vehicle Class(es): PC \_\_\_ LDT1 X LDT2 \_\_\_ 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 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/HO<sub>2</sub>S/EGR/TWC(2)/24025/0BD2  
(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.
557S R00A/N	Ranger 4x2 RC SWB	M5	3500	11.2	F57F-BDA	F3DE-AA/ F37E-CA	F57A-BC/ F57A-BD
			3500*	12.3			
	RC LWB	3500	11.2				
		3625*	12.3				
	Mazda B4000 4x2	RC SWB	3500	11.2			
			3625*	12.3			
RC LWB		3625	11.2				
			3625*	12.3			

\* with air conditioning

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**PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES**

Manufacturer: Ford Motor Company      Exhaust Engine Family: SFM4.018G1EK

Evap Standard: 50K X    Useful Life with R/L \_\_\_\_\_    Evap Family: SFM1045AYPOA

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

Vehicle Class(es): PC \_\_\_ LDT1 X LDT2 \_\_\_ 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 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/HO<sub>2</sub>S/EGR/TWC(2) / 24025 / 0892  
(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.
558S R06A/N	Ranger 4x2 RC SWB	A4	3500	11.2	F57F-BJC	F3DE-AA/ F37E-CA	F57A-BC/ F57A-BD
			3625*	12.3			
			3625	11.2			
			3625*	12.3			
	Mazda B4000 4x2 RC SWB		3625	11.2			
			3625*	12.3			
			3625#	11.2			
			3625*#	12.3			

\* with air conditioning  
# per Running Change 4.0-122

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

Manufacturer: Ford Motor Company      Exhaust Engine Family: SFM4.018G1EK

Evap Standard: 50K  Useful Life with R/L \_\_\_\_\_ Evap Family: SFM1045AYPOA

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

Vehicle Class(es): PC  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)

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 Config: V6      Liter (CID): 4.0 (244)

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

Exhaust ECS & Special Features: SFI/HO<sub>2</sub>S/EGR/TWC(2) / 24025 / 0802  
(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.
557S R06A/N	Ranger 4x2 RC SWB	M5			F57F-BDC	F3DE-AA/ F37E-CA	F57A-BC/ F57A-BD
			3500	11.2			
		3500*	12.3				
	RC LWB			3625#	11.2		
				3625*	12.3		
	Mazda B4000 4x2	RC SWB				F57F-BDC	F3DE-AA/ F37E-CA
3500			11.2				
		3625*	12.3				
RC LWB				3500#	11.2		
			3625*	12.3			

\* with air conditioning  
# per Running Change 4.0-122

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

Manufacturer: Ford Motor Company                      Exhaust Engine Family: SFM4.018G1EK

Evap Standard: 50K     Useful Life with R/L \_\_\_\_\_    Evap Family: SFM1045AYPOA

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

Vehicle Class(es): PC  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)

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 Config: V6                      Liter (CID): 4.0 (244)

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

Exhaust ECS & Special Features: SFI/HO<sub>2</sub>S/EGR/TWC(2)/24025/0802  
(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.
558S R15A/N	Ranger 4x2 RC SWB	A4	3500	11.2	F57F-CTA	F3DE-AA/ F37E-CA	F57A-BC/ F57A-BD
			3625*	12.3			
			3625	11.2			
			3625*	12.3			
	Mazda B4000 4x2 RC SWB		3625	11.2			
			3625*	12.3			
			3625	11.2			
			3625*	12.3			
RC LWB		3625	11.2				
		3625*	12.3				

\* with air conditioning



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

Manufacturer: Ford Motor Company      Exhaust Engine Family: SFM4.018G1EK

Evap Standard: 50K X    Useful Life with R/L \_\_\_\_\_    Evap Family: SFM1045AYP0A

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

Vehicle Class(es): PC \_\_\_ LDT1 X LDT2 \_\_\_ 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 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/HO<sub>2</sub>S/EGR/TWC(2)/2HO25/CBD2  
(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.
557S R15A/N	Ranger 4x2	M5			F57F-CZA	F37E-CA/ F3DE-AA	F57A-BD/ F57A-BC
	RC LWB		3500*	12.3			
			3625	11.2			
		3625*	12.3				
	Mazda B4000 4x2						
	RC SWB		3500	11.2			
	3625*		12.3				
	RC LWB			3500	11.2		
				3625*	12.3		

\* with air conditioning