State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-293
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 1986 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement Cubic Inches	(Liters)	Exhaust Emission Control Systems (Special Features)
GFM2.3T5FGG9	140	(2.3)	Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Electronic Fuel Injection)

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

The following are the emission standards for this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0-3999	0.39	9.0	1.0

The following are the certification emission values for this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3999	0.23	4.5	0.4

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) 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 regulations (Title 13, California Administrative Code, Section 2035 et seq.) and Health and Safety Code Section 43204, provided, however, that jurisdiction is hereby reserved to modify these provisions to the extent made necessary by an EPA waiver decision, in order to assure that the listed vehicles comply with the minimum federal requirements applicable in California.

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 April, 1985.

Bob Cox for

K. D. Drachand, Chief
Mobile Source Division

Manufacturer Ford Motor Company

Executive Order No. A-10-293

Engine Family GFM2.3T5FGG9 (G2.3TGG)

Evaporative Family 6HM

Engine CID (Liters) 140 (2.3)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

Exhaust Emissions Control System

AIP-Air Injection-Pump
AIV-Air Injection-Valve
CL-Closed Loop
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst System
TOG-Trap Oxidizer Continual
TOP-Trap Oxidizer Periodical
TR-Thermal Reactor
TWC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
EFI-Electronic Fuel Injection
IC - Intercooler
MFI-Mechanical Fuel Injection
TC-Turbocharged

VEHICLE MODELS:

Ranger 4x2
- Regular Cab (SWB, LWB)
- Super Cab (SWB)
- Chassis Cab (LWB)

Ranger 4x4
- Regular Cab (SWB, LWB)
- Super Cab (SWB)

Bronco II 4x2
- Standard

Aerostar 4x2
- Van (SWB)
- Bus (SWB)

DRIVE SYSTEM: Front Engine/Rear-Wheel Drive

Engine Family G2.3TGG

Issue Date:	FEB 26 1985										
Revised:											

E.O. #A 10-293

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks __ Medium-Duty Vehicles X Gas __ Diese

Manufacturer Ford Motor Company

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Engine Family GFM2.3T5FGG9 ~~(G2.3TGG)~~

Engine Code 5-49S R10A/N
5-49R R00A/N

ECS (Special Features) EGR, TWC, CL (EFI)

CID (Liter)- 140 (2.3)
Type I4

Engine Code	Vehicle Models (if Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System EFI Part No.	EGR Valve Sonic Part No.	Label Ident. Part No.
5-49S R10A/N	Ranger	Y5X396		E5TF-12A650	E59E-9F593	E59E-9F483	AAY
6-49S R00A/N$	4x2 RCS	(M5)	3000	MB##	AA/AB	AC	
	RCL						
	SCS		3250				
	4x4 RCS		•3125				
	RCL		3250				
	SCS		3375				
	Bronco II						
	4x2 STD		3500				
	Ranger	K5X397					
	4x4 RCS	(M5)	3125				
	RCL		3250				
	SCS		3375				
5-49R R00A/N	Aerostar	Y5X396					AAG
	Van SWB	(M5)	3250*				
	Bus SWB		3625*				
5-49R R10B#	Aerostar						AGB
	Van SWB		3250				
	Bus SWB		3625				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Revisions: * 4-26-85 R/C 2.3-103 (Change ETWs & delete Chassis-cab)
6-19-85 R/C 2.3-108 (Add calibration w/revised curb idle)
8-7-85 CAPL Update
$ 8-9-85 R/C 2.3-119 (Add calibration w/revised curb idle)

Engine Family ~~G2.3TGG~~

~~17-4A~~

Issue Date:	FEB 26 1985										
Revised:	APR 26	JUN 19	AUG 5								

E.O. #A 10-293

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks __ Medium-Duty Vehicles X Gas __ Diese

Manufacturer Ford Motor Company

Page 2B

Engine Family GFM2.3T5FGG9 ~~(G2.3TGG)~~

Engine Code 5-50S R10A/N
5-50R R00A/N

CID (Liter)- 140 (2.3)

ECS (Special Features) EGR, TWC, CL (EFI)

Type I4

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System EFI Part No.	EGR Valve Sonic Part No.	Label Ident. Part No
5-50S R10A/N	Ranger 4x2 RCS RCL SCS	A4X007 (L4)	3000 3125* 3250	E5TF-12A650 LB##	E59E-9F593 AA	E59E-9F483 AC	AAY
5-50R R00A/N	Aerostar Van SWB						AAG

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Revisions: * 4-26-85 R/C 2.3-103 (Change ETW & delete Aerostar Bus)
8-7-85 CAPL Update

Engine Family ~~G2.3TGG~~

~~17-4B~~

Issue Date:	FEB 28 1985										
Revised:	APR 26	JUN 19	AUG 9								

E.O. # A-10-293

1986 DPA SETTINGS
Light Duty Truck

Vehicle Line	ETW Limit	Non A/C CDT	Non A/C DPA	A/C CDT	A/C DPA
Ranger (4X2)	3125 ETW 3500 ETW	13.46 15.19	11.4(C) 11.6(P)	12.48 14.01	12.5(C) 12.8(P)
Ranger (4X2) Chassis Cab	3625 ETW 28.0SF	11.47	15.2(C)	10.68	16.6(C)
Ranger (4X2) Chassis Cab	3875 ETW 42.0SF	10.98	18.1(C)	10.33	19.5(C)
Ranger (4X4)	3750 ETW	14.23	12.9(P)	13.20	14.2(P)
Bronco II (4X4)	3875 ETW	14.86	11.6(P)	13.88	12.8(P)
Bronco II (4X2)	3875 ETW	15.52	10.8	14.40	11.9
F-150 (4X2)	4000 ETW 4500 ETW 4750 ETW	13.24 14.18 15.42	13.2(C)1/ 14.0(C) 15.2(C)	12.41 13.20 14.35	14.5(C) 15.4(C) 16.6(C)
F-250 (4X2)	5000 ETW	14.18R 12.77B	16.2R(C) 18.0B(C)	13.30R 12.04B	17.6R(C) 19.4B(C)
F-150 (4X4)	5000 ETW	14.19R 12.23B	16.5R(C) 18.6B(C)	13.30R 11.59B	17.9R(C) 20.0B(C)
F-250 (4X4)	5250 ETW 5500 ETW	14.03R 12.53B	17.7R(C) 20.0B(C)	13.18R 11.90B	19.1R(C) 21.4B(C)
U-150 (4X4)	5000 ETW 5250 ETW	15.42R 12.51B	14.0R(C) 17.2B(C)	14.36R 11.88B	15.4R(C) 18.6B(C)
Aerostar	3875 ETW	15.94	11.1	14.64	12.2
E-150	5250 ETW	15.38	15.2(C)	14.35	16.6(C)
E-250	5500 ETW 6000 ETW	14.16R 13.71B	17.3R(C) 18.0B(C)	13.31 13.05	18.7R(C) 19.4B(C)

NOTES: 1/ F-150 w/SF/2/1/50 spoiler.
(C) - Carryover Data
(P) - Pending EPA Approval

R - Radial Tire; B - Bias Tire

Engine Family G2.3TGG

Issue Date:	FEB 26 1985										
Revised											