State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-316
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 1987 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)
HFM2.9T5FRC2	179	(2.9)	Exhaust Gas Recirculation Three-Way Catalysts (Two) Heated Oxygen Sensor (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
4000-5999	0.50	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	0.16	2.7	0.4
4000-5999	0.25	4.0	0.5

BE IT FURTHER RESOLVED: That the listed models in the 0-3999 equivalent inertia weight class 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, for the listed vehicles in the 0-3999 equivalent inertia weight class, with Health and Safety Code Section 43204.

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 28th day of July, 1986.

K. D. Drachand, Chief
Mobile Source Division

E.O. # A-10-316

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company

Engine Family HFM2.9T5FRC2 ~~(H2.9TRC)~~

Evaporative Family 7HM

Engine Type V6

Liters (CID) 2.9 (179)

ABBREVIATIONS

Ignition System

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

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
SPL-Smoke Puff Limiter or Throttle Delay
TOC-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 or aftercooler
MFI-Mechanical Fuel Injection
TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor

VEHICLE MODELS:

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

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

Bronco II 4x2

Bronco II 4x4

Engine: Front X Mid. _____ Rear _____

Drive: FWD RWD X 4WD Full Time _____ 4WD Part Time X

Engine Family H2.9TRC (ABBREV.)

Issue Date	JUL 17 1986									
Revised										

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1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 2A

Passenger Cars ____ Light-Duty Trucks X Medium-Duty Vehicles ____ Gas X Diesel ____

Manufacturer Ford Motor Company Engine Family HFM2.9T5FRC2 (H2.9TRC)

Liter (CID) 2.9 (179) Eng. Type V6

Emission Control Sys. (Special Features) CL, EGR, TWC, (EFI)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type M5	Equiv. Test Weight	Ign. System (ECU) EEC IV Part No.	Fuel System EFI Part No.	EGR Valve PFE Part No.	Catalyst TWC Part No.
765SR00A/N -R05A/N#	Ranger 4x2	Y5X396		E7TF-BFA	E7DE-BB/ E67E-BB	E6AE-BA	E67A-EC E77A-PA@
	SCS		3375				
	RCS, RCL		3000/ 3125*				
765TR00A/N -R05A/N#	Bronco II 4x2		3375/ 3500*	E7TF-BJA			
	Ranger 4x4	Y5X396/ K5X397					
	SCS		3625/ 3750*				
	RCS		3250				
	RCL		3250/ 3375*				
	Bronco II 4x4		3625				

* with Air Conditioning

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.

#Added per R/C 2.9-102 @Added per R/C 2.9-104

Engine Family H2.9TRC

Issue Date JUL 17 1986								
Revised AUG 13 APR 21								

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1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 2B

Passenger Cars ____ Light-Duty Trucks X Medium-Duty Vehicles ____ Gas X Diesel ____

Manufacturer Ford Motor Company Engine Family HFM2.9T5FRC2 (H2.9TRC)

Liter (CID) 2.9 (179) Eng. Type V6

Emission Control Sys. (Special Features) CL, EGR, TWC, (EFI)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type L4	Equiv. Test Weight	Ign. System (ECU) EEC IV Part No.	Fuel System EFI Part No.	EGR Valve PFE Part No.	Catalyst TWC Part No.
766SR00A/N	Ranger 4x2	A4X019		E7TF-FA	E7DE-BB/	E6AE-BA	E67A-EC
-R05A/N#	SCS		3375/		E67E-BB		E77A-PA@
-R10A/N$			3500*				
	RCS, RCL		3125				
	Bronco II 4x2		3500/				
			3625*				
	Ranger 4x4						
	SCS		3750				
	RCS		3250/				
			3375*				
	RCL		3375				
	Bronco II 4x4		3625/				
			3750*				

* with Air Conditioning

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.

#Added per R/C 2.9-102; Added per R/C 2.9-103 @Added per R/C 2.9-104

Engine Family H2.9TRC

Issue Date	JUL 17 1986							
Revised	AUG 13	OCT 7	APR 21					

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1987 DPA SETTINGS

Vehicle Line	ETW Limit	Non A/C CDT	Non A/C DPA	A/C CDT	A/C DPA
Ranger (4X2)	3125 ETW	13.46	11.4(C)	12.48	12.5(C)
	3500 ETW	15.19	11.6(C)	14.01	12.8(C)
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(C)	13.20	14.2(C)
Bronco II (4x4)	3875 ETW	14.86	11.6(C)	13.88	12.8(C)
Bronco II (4X2)	3875 ETW	15.52	10.8(C)	14.40	11.9(C)

Engine Family H2.9TRC

Issue Date	JUL 17 1986									
Revised										