State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-352
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 1988 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)
JFM2.9T5FRC6	2.9	(179)	Heated Oxygen Sensor Three-Way Catalyst (Electronic Port Fuel Injection) (On-Board Diagnostics)

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

The following are the emission standards for this engine family:

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per mile	Nitrogen Oxides Grams per Mile
0-3750	0.39	9.0	1.0
3751-5750	0.50	9.0	1.0

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

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3750	0.21	4.3	0.1
3571-5750	0.23	6.4	0.1

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 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ..." (Title 13, California Administrative Code, Section 1968) 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, 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 4th day of August, 1987.

K. D. Drachand, Chief
Mobile Source Division

E.O. # A-10-352

1988 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 J2.9TRC (JFM2.9T5FRC6)

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

Emission Control Sys. (Special Features) HOS, TWC (EFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type (M5)	Equiv. Test Weight	Ign. System (ECU) EEC IV Part No.	Fuel System (EFI) Part No.	EGR Valve None Part No.	Catalyst (TWC) Part No.
65SR00A/N	Ranger 4x2	M5X372		E8TF-MA	E7DE-BB/ E67E-BB		E87A-HA
	RCS (11.4/12.5*)		3125				
	RCL (11.4/12.5*)		3125/ 3250*				
	SCS (11.6/12.8*)		3375				**E67A-5E212-HC
65TR00A/N	Ranger 4x4	L5X377		E8TF-RA			
	RCS (12.9/14.2*)		3375				**E77A-5E212-NA
	RCL (12.9/14.2*)		3375/ 3500*				
	SCS (12.9/14.2*)		3625/ 3750*				
	Bronco II 4x2	M5X372					
	Std (10.8/11.9*)		3500/ 3625*				
	Bronco II 4x4	L5X377					
	Std (11.6/12.8*)		3625/ 3750*				

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.

* with air conditioning

**Addition per running change 2.9-106

Date of Issue: JUL 28 1987

Revisions:

DS2.91

E.O. # A-10-352

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 2B

assenger Cars ____ light-Duty Trucks X Medium-Duty Vehicles ____ Gas X Diesel ____

anufacturer Ford Motor Company Engine Family J2.9TRC (JFM2.9T5FRC6)

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

mission Control Sys. (Special Features) HOS, TWC (EFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type (L4)	Equiv. Test Weight	Ign. System (ECU) EEC IV Part No.	Fuel System (EFI) Part No.	EGR Valve None Part No.	Catalyst (TWC) Part No.
66SR00A/N	Ranger 4x2	A4X033		E8TF-TA	E7DE-BB/		E87A-HA
	RCS (11.4/12.5*)		3125/ 3250*		E67E-BB		
	RCL (11.4/12.5*)						**E67A-5E212-HC
	SCS (11.6/12.8*)		3375/ 3500*				
							**E77A-5E212-NA
	Ranger 4x4						
	RCS (12.9/14.2*)		3375/ 3500*				
	RCL (12.9/14.2*)		3500				
	SCS (12.9/14.2*)		3750				
	Bronco II 4x2						
	Std (10.8/11.9*)		3625				
	Bronco II 4x4						
	Std (11.6/12.8*)		3750				

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company

Engine Family J2.9TRC (JFM2.9T5FRC6)

Evaporative Family 8HM

Engine Type V6

Liters (CID) 2.9 (179)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
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
DBC-Dual Bed Catalyst
EGR-Exhaust Gas Recirculation
EIC-Electronic Injection Control
EM-Engine Modification
OC-Oxidation Catalyst
OS-Oxygen Sensor
HOS-Heated Oxygen Sensor
SPL-Smoke Puff Limiter or Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
TWC-Three-way Catalyst
WUOC-Warm-up Oxidation Catalyst
WUTWC-Warm-up Three-way Catalyst

Special Features

CCV-Combustion Chamber Valve
CFI-Central Fuel Injection or Throttle Body Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
EFI-Electronic Fuel Injection
IC-Intercooler or After cooler
MFI-Mechanical Fuel Injection
OBD-On-Board Diagnostics
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
Standard

Bronco II 4x4
Standard

Engine: Front X Mid ___ Rear ___
Drive: FWD ___ RWD X 4WD Full Time ___ 4WD Part Time X
SDS2.90

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1988 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 J2.9TRC (JFM2.9T5FRC6)

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

Emission Control Sys. (Special Features) HOS, TWC (EFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type (M5)	Equiv. Test Weight	Ign. System (ECU) EEC IV Part No.	Fuel System (EFI) Part No.	EGR Valve None Part No.	Catalyst (TWC) Part No.
865SR00A/N	Ranger 4x2	M5X372		E8TF-MA	E7DE-BB/		E87A-HA
	RCS (11.4/12.5*)		3125		E67E-BB		
	RCL (11.4/12.5*)		3125/ 3250*				
	SCS (11.6/12.8*)		3375				
865TR00A/N	Ranger 4x4	L5X377		E8TF-RA			
	RCS (12.9/14.2*)		3375				
	RCL (12.9/14.2*)		3375/ 3500*				
	SCS (12.9/14.2*)		3625/ 3750*				
	Bronco II 4x2	M5X372/					
	Std (10.8/11.9*)	L5X377#	3500/ 3625*				
	Bronco II 4x4	L5X377					
	Std (11.6/12.8*)		3625/ 3750*				

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.

* with air conditioning
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Revisions: #10-28-87 (R/C 2.9-109)

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E.O. # A-10-352

1988 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 J2.9TRC (JFM2.9T5FRC6)

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

Emission Control Sys. (Special Features) HOS, TWC (EFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type (L4)	Equiv. Test Weight	Ign. System (ECU) EEC IV Part No.	Fuel System (EFI) Part No.	EGR Valve None Part No.	Catalyst (TWC) Part No.
866SR00A/N $R11A/N	Ranger 4x2 RCS (11.4/12.5*) RCL (11.4/12.5*) SCS (11.6/12.8*) Ranger 4x4 RCS (12.9/14.2*) RCL (12.9/14.2*) SCS (12.9/14.2*) Bronco II 4x2 Std (10.8/11.9*) Bronco II 4x4 Std (11.6/12.8*)	A4X033/ A4X034#	3125/ 3250* 3375/ 3500* 3375/ 3500* 3500 3750 3625 3750	E8TF-TA $E8TF-TC	E7DE-BB/ E67E-BB		E87A-HA

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.

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