## 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	Displacer Cubic Inches		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 \_\_\_

\_ day of July, 1986.

K. D. Drachand, Chief Mobile Source Division

## 1987\_ AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer Ford Motor Compa	Engine Family <u>HFM2</u> .	9T5FRC2 <del>(H2.9TRC)</del>
Evaporative Family 7HM	Engine Type V6	
	Liters (CID) 2.9 (1	79)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	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	CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel
Fuel System  CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor		Injection IC-Intercooler or aftercooler MFI-Mechanical Fuel Injection TC-Turbocharger
VEHICLE MODELS:		
Ranger 4x2 Regular Cab (SWB, LWB) Super Cab (SWB)		
Ranger 4x4 Regular Cab (SWB, LWB) Super Cab (SWB)		
Bronco II 4x2		٠.
Bronco II 4x4		
gine: Front X Mid.	Rear	
Drive: FWD RWD 2 Engine Family H2.9TRC  Issue Date UUL 17 1986	4WD Full Time 4WD P $\frac{ABBREV.}{17-3}$	art Time <u>X</u>

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( .	1987	AIR RES	OURCES BO	ARD SUPPLEMENT	AL DATA SHEET	E.O. # A-	-10-316
Passenger	Cars Light-	·				Page Gas v Di	2A
	er Ford Motor						
	2.9 (179)				<u> </u>		
	ontrol Sys. (Spec	•					
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.
/65SR00A/N -R05A/N#	Ranger 4x2 SCS RCS, RCL	Y5X396	3375 3000/ 3125*	E7TF-BFA	E7DE-BB/ E67E-BB	E6AE-BA	E67A-EC E77A-PA
/65TR00A/N / -R05A/N#	Bronco II 4x2		3375/ 3500*	E7TF-BJA			
	Ranger 4x4 SCS RCS RCL	Y5X396/ K5X397	3625/ 3750* 3250 3250/ 3375*				
	Bronco II 4x4		3625				
,							
	r Conditioning		tions and	evanorative e	mission family	/ identificat	ion

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 ipment. 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 1 7 1986	17-4A	
Ì	Revised AUG 13APR 21		٦

$( \frown )$	1987	AIR RES	OURCES BO	ARD SUPPLEMENT	AL DATA SHEET	E.O. # _A	
Passenger	Cars Light	-Duty Tru	cks X	Medium-Duty Ve	ehicles	Gas <u>X</u> Di	e 2B esel
Manufactur	er Ford Motor	Compan	У	Engine Fam	nily HFM2.97	r5FRC2 (H2	.9TRC)
Liter (CII	)) 2.9 (179)			Eng. 1	ype V6		
	Control Sys. (Spe						
	. •						
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.
66SR00A/N -R05A/N# -R10A/N\$	SCS	A4X019	3375/ 3500* 3125	E7TF-FA	E7DE-BB/ E67E-BB	E6AE-BA	E67A-EC E77A-PA@
C	Bronco II 4x2		3500/ 3625*,		·		
	Ranger 4x4 SCS RCS		3750 3250/ 3375*				
	RCL		3375	÷			
	Bronco II 4x4		3625/ 3750*			·	
	_						
,							
* with Ai	r Conditioning See page one for	abbrevia	tions and	evanorative e	mission family	, identifica	tion

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 imment. 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 1 7 1986	17-4B
Revised AUG 13 DCT 7	PR 2 1

A-10-316 PG. 3

1987 DPA SETTINGS

	ETW	Non	A/C	A	/C
Vehicle Line	Limit	CDT	DPA	CDT	DPA
Ranger (4X2)	3125 ETW   3500 ETW	13.46 15.19	11.4(C) 11.6(C)	12.48 14.01	12.5(C) 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 <u>H2.9TRC</u>

Issue Date JUL 17 1986	17-5
Revised	