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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-350 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 passenger cars:

Engine Family		splacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JFM3.8V5HHCO	3.8	(231)	Air Injection - Pump Heated Oxygen Sensor Oxidation Catalyst Exhaust Gas Recirculation 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:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
Grams per Mile	Grams per Mile	Grams per mile	
0.41	7.0	0.7	

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
Grams per Mile	Grams per Mile	Grams per Mile		
0.20	1.6	0.3		

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. FORD MOTOR COMPANY

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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

4⁷⁷ day of August, 1987.

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K. D. Drachand, Chief Mobile Source Division

07-29-67

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CERTIFICATION FROGRAMS DEFT.

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OBD-Ou-Board

TC Turbocharger

Diagnostics

		E.O. # A-10-350
1988 AIR #	RESOURCES BOARD SUPPLEMENTAL DATA SHEET	
		<u>Fuge</u> 1
55 E 1 T 6 LB		
	any Engine Family JFM3.8V5H	
Evaporative Family <u>SHMV</u>	Engine Type <u>V6</u>	
	Liters (CID) <u>3.8L (231)</u>	
ASBREVIATIONS		
ignition System	<u>Exhaust Emissions Control System</u>	Special Features
CA-Centrifugal Advance ECO-Electronic Control Unic EI-Electronic Ignition ESAC-Electronic Spark A wance Control VA-Vacuum Advance VR-V-spana Retard	AIP Air Injection Pump AIV-Air Injection Valve DBC-Dual Bed Gatalyst EGR-Exhaust Gas Recirculation EIG-Electronic Injection Control EM-Engine Modification OC-Oxidation Gatalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOG-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TWC-Three-way Catalyst WOOC-Warm-up Oxidation Catalyst WUTWC-Warm-up Three-way Catalyst	GGV-Combustion Combustion Combustion GFI-Central For Injection Throttle Sody Injection DID Diesel Injection- Prechamber EFI-Electronic Fool Injection C-Intercooler or Aftercooler MFI-Mechanical
<u>Suel System</u>		Fuel Injection

CF1. CL, DID, DIP, EF1, MF1 nV-nVenturi Carburetor

VEHICLE MODELS:

THINDERBIRD 63D COUGAR 66D

Drive Front XXX Mid ____ Rear ____ 4WD Part Time ____ 4WD Part Time ____

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				RD SUPPLEMENTAI	L DATA SHEET		e <u>1</u>
Fassenger (Cars <u>XXX</u> Light-Du	ity Trucks	s Me	adium-Duty Vehi	lcles Ga	s <u>XXX</u> Dies	sel
Marineture	r FORD MOTOR COM	PANY		Engine Fami	11y <u>JFM3.8V5H</u>	HCO	
Liter (CID)	3,8 (231)			Eng. Typ	pe <u>V6</u>		
Emission Co	ontrol Sys. (Specia	al Feature	es) <u>ECU, 1</u>	EI,ESAC,AIP,EGH	R,OC,TWC,HOS,E	PFI,OBD	<u></u>
Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System (Injectors)	EGR Valve	Catalyst
	(Dyno Hp)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Part No. -12A650-	Part No. -9F593-	Part No. -9D475-	Part No.
8-16T-ROOA	THUNDERBIRD (8.1)	A4-0D	3500*	E8SFDB	E7DEBB	E6AEBA	5F250-AA and
	COUGAR (9.1)		3625				E8SC- 5F212-AA
8-16F-ROOA <u>1</u> /	THUNDERBIRD (8.1)		3500*	E8SFCB			
	COUGAR (9.1)		3625				
*							

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufactureres 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.

* Ford elects to test at the next higher ETW 1/ Per R/C 3.8-3

Dat f Issue 7/22/87 Revisions: 9/16/87