

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-356  
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:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
JFM3.8V5FFC1	3.8 (231)	Air Injection - Pump Exhaust Gas Recirculation 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:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0.39	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.16	1.0	0.5

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 11<sup>th</sup> day of August, 1987.



K. D. Drachand, Chief  
Mobile Source Division

## 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer Ford Motor Company Engine Family JFM3.8V5FFC1  
 Evaporative Family 8HM2 Engine Type V6  
 Liters (CID) 3.8L (231)

## ABBREVIATIONS

<u>Ignition System</u>	<u>Exhaust Emissions Control System</u>	<u>Special Features</u>
CA-Centrifugal Advance	AIP-Air Injection Pump	CCV-Combustion Chamber Valve
ECU-Electronic Control Unit	AIV-Air Injection Valve	CFI-Central Fuel Injection or Throttle Body Injection
EI-Electronic Ignition	DBC-Dual Bed Catalyst	DID-Diesel Injection-Direct
ESAC-Electronic Spark Advance Control	EGR-Exhaust Gas Recirculation	DIP-Diesel Injection-Prechamber
VA-Vacuum Advance	EIC-Electronic Injection Control	EFI-Electronic Fuel Injection
VR-Vacuum Retard	EM-Engine Modification	IC-Intercooler or Aftercooler
	OC-Oxidation Catalyst	MFI-Mechanical Fuel Injection
	OS-Oxygen Sensor	OBD-On-Board Diagnostics
	HOS-Heated Oxygen Sensor	TC-Turbocharger
	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	

Fuel System

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

VEHICLE MODELS:

CONTINENTAL 54D  
 TAURUS SEDAN 54D  
 TAURUS S/W 74D  
 SABLE SEDAN 54D  
 SABLE S/W 74D

Engine: Front XXX Mid     Rear      
 Drive: FWD XXX RWD     4WD Full Time     4WD Part Time    

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## 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars XXX Light-Duty Trucks \_\_\_\_\_ Medium-Duty Vehicles \_\_\_\_\_ Gas XXX Diesel \_\_\_\_\_Manufacturer FORD MOTOR COMPANY Engine Family JFM3.8V5FFC1Liter (CID) 3.8 (231) Eng. Type V6Emission Control Sys. (Special Features) ECU,ESAC,AIP,CL,HOS,EGR,TWC,EFI,OB

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System (Injectors)	EGR Valve	Catalyst
				Part No. -12A650-	Part No. -9F593-	Part No. -9D475-	Part No.
8-16Q-R00A	TAURUS SEDAN (6.6)	A4-OD	3500	E8DF- -HB	E7DE- -BB OR E7DE- -AB	E6AE- -BA OR E9SE- -AA	E8DC- 5F250-BA and E7DC- 5F212-BB
	SABLE SEDAN (6.6)		3625				
8-16Q-R00N	TAURUS SEDAN (6.0)		3500				
	SABLE SEDAN (6.0)		3500 <u>2/</u>				
8-16R-R00A	CONTINENTAL (8.5)		3875 <u>2/</u>	E80F- -BB			
	TAURUS S/W (8.4)		3750	E8DF- -EB			
	SABLE S/W (8.4)		3750				
8-16R-R00N	TAURUS S/W (7.6)		3625				
	SABLE S/W (7.6)		3750				

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.

2/ Ford elects to test at the next higher ETW

## 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars XXX Light-Duty Trucks \_\_\_\_\_ Medium-Duty Vehicles \_\_\_\_\_ Gas XXX Diesel \_\_\_\_\_Manufacturer FORD MOTOR COMPANY Engine Family JFM3.8V5FFC1Liter (CID) 3.8 (231) Eng. Type V6Emission Control Sys. (Special Features) ECU,ESAC,AIP,CL,HOS,EGR,TWC,EFI,OB

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System (Injectors)	EGR Valve	Catalyst
				Part No. -12A650-	Part No. -9F593-	Part No. -9D475-	Part No.
8-16R-R05A	CONTINENTAL (8.5)	A4-OD	3875 <u>2/</u>	E80F- -BC	E7DE- -BB OR E7DE- -AB	E6AE- -BA OR E9SE- -AA	E8DC- 5F250-BA and E7DC- 5F212-BB
	TAURUS S/W (8.4)		3750	E8DF- -EC			
	SABLE S/W (8.4)		3750				
8-16R-R05N	TAURUS S/W (7.6)		3625				
	SABLE S/W (7.6)		3750				
8-16Q-R00A	TAURUS S/W (8.4)		3750	E8DF- -HB			
	SABLE S/W (8.4)		3750				
8-16Q-R00N	TAURUS S/W (7.6)		3625				
	SABLE S/W (7.6)		3750				

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.

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Date of Issue 9/1/87 Revisions: 9/30/87;11/10/87  
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## 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars XXX Light-Duty Trucks \_\_\_\_\_ Medium-Duty Vehicles \_\_\_\_\_ Gas XXX Diesel \_\_\_\_\_Manufacturer FORD MOTOR COMPANY Engine Family JFM3.8V5FFC1Liter (CID) 3.8 (231) Eng. Type V6Emission Control Sys. (Special Features) ~~ECU, ESAC, AIP, GL, HOS, EGR, TWC~~ (EFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System (Injectors)	EGR Valve	Catalyst
				Part No. -12A650-	Part No. -9F593-	Part No. -9D475-	Part No.
8-16Q-R10A	TAURUS SEDAN (6.6)	A4-OD	3500	E8DF- -HC	E7DE- -BB OR E7DE- -AB	E6AE- -BA OR E9SE- -AA	E8DC- 5F250-BA and E7DC- 5F212-BB
	SABLE SEDAN (6.6)		3500 2/				
	TAURUS S/W (8.4)		3625				
	SABLE S/W (8.4)		3625 2/				
8-16Q-R10N	TAURUS SEDAN (6.0)		3375 2/				
	SABLE SEDAN (6.0)		3500				
	TAURUS S/W (7.6)		3625				
	SABLE S/W (7.6)		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.

2/ Ford elects to test at the next higher ETW

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Passenger Cars XXX Light-Duty Trucks \_\_\_\_\_ Medium-Duty Vehicles \_\_\_\_\_ Gas XXX Diesel \_\_\_\_\_

Manufacturer FORD MOTOR COMPANY Engine Family JFM3.8V5FFC1

Displacement (CID) 3.8 (231) Eng. Type V6

Emission Control Sys. (Special Features) ECU,ESAC,AIP,CL,HOS,EGR,TWC,EFI,OBD

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System (Injectors)	EGR Valve	Catalyst
				Part No. -12A650-	Part No. -9F593-	Part No. -9D475-	Part No.
16R-R11A	CONTINENTAL (8.5)	A4-OD	3875 2/	E80F- -BE	E7DE- -BB OR E7DE- -AB	E6AE- -BA OR E9SE- -AA	E8DC- 5F250-BA and E7DC- 5F212-BB

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.

/ Ford elects to test at the next higher ETW

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