

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-459  
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 1991 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family: MFM4.0T5FAM0 Displacement: 4.0 Liters (244 Cu. Inches)  
Equipped with the following exhaust emission control systems:

- Heated Oxygen Sensor
- Three-Way Catalysts (Two)
- Multipoint 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:

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
3751-5750	0.50	9.0	1.0

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

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
3751-5750	0.12	3.0	0.3

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 Code of Regulations, 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 Code of Regulations, 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 Code of Regulations, 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 provisions of California Health and Safety Code Section 43205.

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 19<sup>th</sup> day of June, 1990.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

## 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1Manufacturer Ford Motor Company Engine Family MFM4.OT5FAM0 (M4.OTAM)Passenger Cars      Light-Duty Trucks X Medium-Duty Vehicles      Fuel Type GasEngine Type V6 Liter (CID) 4.0 (244) Evaporative Family OHM-04Emission Control System & Special Features (2) TWC, HOS, M/C  
(Use abbreviations per SAE J1930, June 88)Engine: Front X Mid      Rear      Drive: FWD      RWD X 4WD-FT      4WD-PT X

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type  A-Auto M-Manual	Equiv. Test Weight	RLHP	Ign. System (PCME/PROM)  Part No. -12A650-	EGR System  Part No.	Catalyst  Part No. -5E212-
3751-5750# LVW							
057RR00A/N	Explorer 4x2 2D SWB (11.3) (12.4*) 4D LWB (11.3) (12.4*)  Explorer 4x4 2D SWB (12.0) (13.2*) 4D LWB (12.0) (13.2*)	M5	4000  4250	16.5 17.6  16.5 17.6	F07F-YA		F17A-EC

Revisions:

042090

\* with air conditioning

ENGINE FAMILY: M4.OTAM

20.09.17.02-1

ISSUED: 6-8-90

REVISED:

## 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 2Manufacturer Ford Motor Company Engine Family M4.OT5FAM0 (M4.OTAM)Passenger Cars  Light-Duty Trucks  Medium-Duty Vehicles  Fuel Type GasEngine Type V6 Liter (CID) 4.0 (244) Evaporative Family OHM-04Emission Control System & Special Features (2) TWC, HOS, APT  
(Use abbreviations per SAE J1930, June 88)Engine: Front  Mid  Rear  Drive: FWD  RWD  4WD-FT  4WD-PT 

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type  A-Auto M-Manual	Equiv. Test Weight	RLHP	Ign. System (PCME/PROM)  Part No. -12A650-	EGR System  Part No.	Catalyst  Part No. -5E212-
3751-5750# LVW							
058RR00A/N	Explorer 4x2 2D SWB (11.3) (12.4*) 4D LWB (11.3) (12.4*)	A4	4000 4250	16.5 17.6 16.5 17.6	F07F-AAA		F17A-EC

Revisions:

042090

\* with air conditioning

ENGINE FAMILY: M4.OTAM

20.09.17.02-2

ISSUED: 6-8-90

REVISED:

## 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 3Manufacturer Ford Motor Company Engine Family MFM4.OT5FAMO (M4.OTAM)Passenger Cars  Light-Duty Trucks  Medium-Duty Vehicles  Fuel Type GasEngine Type V6 Liter (CID) 4.0 (244) Evaporative Family OHM-04Emission Control System & Special Features TWC, HOS, <sup>(2)</sup> MPE  
(Use abbreviations per SAE J1930, June 88)Engine: Front  Mid  Rear  Drive: FWD  RWD  4WD-FT  4WD-PT 

Engine Code (Cert Std)	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type A-Auto M-Manual	Equiv. Test Weight	RLHP	Ign. System (PCME/PROM) Part No. -12A650-	EGR System Part No.	Catalyst Part No. -5E212-
058PR00A/N	Explorer 4x2 2D SWB (11.3) (12.4*) 4D LWB (11.3) (12.4*)  Explorer 4x4 2D SWB (12.0) (13.2*) 4D LWB (12.0) (13.2*)	A4	4000  4250  4500	16.5 17.6 16.5 17.6  18.3 19.5 18.3 19.5	F07F-ACB		F17A-EC

Revisions:

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\* with air conditioning

ENGINE FAMILY: M4.OTAM

20.09.17.02-3

ISSUED: 6-8-90

REVISED:

## 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 4Manufacturer Ford Motor Company Engine Family MFM4.OT5FAM0 (M4.OTAM)Passenger Cars \_\_\_ Light-Duty Trucks X Medium-Duty Vehicles \_\_\_ Fuel Type GasEngine Type V6 Liter (CID) 4.0 (244) Evaporative Family OHM-04Emission Control System & Special Features (2) TWC, HOS, APE  
(Use abbreviations per SAE J1930, June 88)Engine: Front X Mid \_\_\_ Rear \_\_\_ Drive: FWD \_\_\_ RWD \_\_\_ 4WD-FT X 4WD-PT \_\_\_

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type  A-Auto M-Manual	Equiv. Test Weight	RLHP	Ign. System (PCME/PROM)  Part No. -12A650-	EGR System  Part No.	Catalyst  Part No. -5F250-
3751-5750# LVW							
058LR00A/N	Aerostar AWD Clb Wgn (11.9) (13.1*) Ext Wgn (11.9) (13.1*) Reg Van (11.9) (13.1*) Ext Van (11.9) (13.1*)	A4	4250   3875  4000	17.7 18.8 17.7 18.8 17.7 18.8 17.7 18.8	F07F-TA		F19A-AA

Revisions:

042090

\* with air conditioning

ENGINE FAMILY: M4.OTAM

20.09.17.02-4

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REVISED:

## 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 5Manufacturer Ford Motor Company Engine Family MFM4.OT5FAM0 (M4.OTAM)Passenger Cars  Light-Duty Trucks  Medium-Duty Vehicles  Fuel Type GasEngine Type V6 Liter (CID) 4.0 (244) Evaporative Family OHM-04Emission Control System & Special Features <sup>(2)</sup> TWC, HOS, MPT  
(Use abbreviations per SAE J1930, June 88)Engine: Front  Mid  Rear  Drive: FWD  RWD  4WD-FT  4WD-PT 

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type  A-Auto M-Manual	Equiv. Test Weight	RLHP	Ign. System (PCME/PROM)  Part No. -12A650-	EGR System  Part No.	Catalyst  Part No. -5F250-
3751-5750# LVW							
058QR00A/N	Aerostar 4x2 Ext Wgn (10.6) (11.7*) Ext Van (10.6) (11.7*)	A4	4250 3750 3875	16.1 16.8 15.3 16.1	F07F-UA		F19A-AA

Revisions:

042090

\* with air conditioning

ENGINE FAMILY: M4.OTAM

20.09.17.02-5

ISSUED: 6-8-90

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## 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 6Manufacturer Ford Motor Company Engine Family MFM4.0T5FAM0 (M4.0TAM)Passenger Cars  Light-Duty Trucks  Medium-Duty Vehicles  Fuel Type GasEngine Type V6 Liter (CID) 4.0 (244) Evaporative Family OHM-04Emission Control System & Special Features <sup>(Z)</sup> TWC, HOS, APT  
(Use abbreviations per SAE J1930, June 88)Engine: Front  Mid  Rear  Drive: FWD  RWD  4WD-FT  4WD-PT 

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	RLHP	Ign. System (PCME/PROM)	EGR System	Catalyst
3751-5750# LVW	(Dyno Hp)	A-Auto M-Manual			Part No. -12A650-	Part No.	Part No. -5F250-
158LR10A/N	Aerostar AWD Clb Wgn (11.9) (13.1*) Ext Wgn (11.9) (13.1*) Reg Van (11.9) (13.1*) Ext Van (11.9) (13.1*)	A4	4250  3875  4000	17.7 18.8 17.7 18.8 17.7 18.8 17.7 18.8	F17F-TA		F19A-AA

Revisions:

042090

\* with air conditioning

ENGINE FAMILY: M4.0TAM

20.09.17.02-6

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