State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-386
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Ford Motor Company 1989 model-year gasoline engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds.

Engine Family	Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KFM07.5BTAX	7.5 (460)	Exhaust Gas Recirculation Air Injection Pump Heated Oxygen Sensor Three-Way Catalyst (Electronic Port Fuel Injection)

Engine models and codes are listed on attachments.

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

Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr
1.1	14.4	6.0

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

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr
KFM07.5BTAX	0.5	10.7	4.4

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines 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 attachments.

Executed at El Monte, California this 22nd day of July, 1988.

K. D. Drachand, Chief
Mobile Source Division

E.O.# A-10-386

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company

Engine Family KFM07.5BTAX (K7.5A)

Evaporative Family 9HMN

Engine Type V-8

Liters (CID) 7.5L (460)

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
EGR-Exhaust Gas Recirculation
EIC-Electronic Injection Control (Diesel Only)
EM-Engine Modification
SPL-Smoke Puff Limiter or Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
DBC-Dual Bed Catalyst
OC-Oxidation Catalyst
TWC-Three-Way Catalyst
WUOC-Warm-Up Oxidation Catalyst
WUTWC-Warm-Up Three-Way Catalyst
OS-Oxygen Sensor
HOS-Heated Oxygen Sensor

Special Features

CFI-Central Fuel Injection or Throttle Body Injection
EPFI-Electronic Port Fuel Injection
MPFI-Mechanical Port Fuel Injection
SFI-Sequential Fuel Injection
DID-Diesel Injection Direct
DIP-Diesel Injection Prechamber
TC-Turbocharger
SC-Supercharger
IC-Intercooler or Aftercooler
CCV-Combustion Chamb Valve
OBD-On-Board Diagnostics
MIL-Malfunction Indicator Light

Fuel System

CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

VEHICLE MODELS: E250/E350/Stripped or Cutaway
F250/F350/~~F450~~

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

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Revised							

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E.O. # A-10-386

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY DUTY ENGINES

Manufacturer Ford Motor Company Engine Family KFM07.5BTAX

Liter (CID) 5.8L (351 CID) Eng. Type V-8

Emission Control Sys. (Special Features) EGR/AIR/TWC/HOS/EPFI OBD-MIL

Engine Code	Maximum Rated HP at RPM	Rated Torque at RPM	Ign. System (ECU) Part No. -12A650-	Fuel System Part No. -9F593-	EGR Valve Part No. -9F483-	Catalyst Part No. -5E212-
8-97A-R10	218 @ 3600	363 @ 1800	E8TF-BLB	E8TE-BC	E7TE-GA	E8TA-LA
8-98A-R10	"	"	E8TF-BMB	"	"	"

Comments: See page one for abbreviations and evaporative emission family identification.

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