State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-384
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 1989 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks and medium-duty vehicles:

Engine Family	Displacement Liters	(Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KFM5.8T5HAC4	5.8	(351)	Air Injection - Pump
	5.0	(302)	Exhaust Gas Recirculation
			Heated Oxygen Sensor
			Oxidation Catalyst
			Three-Way Catalyst
			(Electronic Port Fuel Injection)
			On-Board Diagnostics (Exempted)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

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

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

Loaded Vehicle Weight(lbs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
3751-5750	0.23	3.4	0.6

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 have been granted an exemption from compliance with the requirements of 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.).

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 19th day of July, 1988.

K. D. Drachand, Chief
Mobile Source Division

E.O.# A-10-384

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company

Engine Family K5.8TAC (KFM5.8T5HAC4)

Evaporative Family 9HM

Engine Type V8

Liters (CID) 5.0 (302)/5.8 (351)

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 Chamber Valve
OBD-On-Board Diagnostics

Fuel System

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

VEHICLE MODELS:

F150 4x2/4x4
RCS, RCL, SCS, SCL

E150
RVS, RVL, SVL, CWL

F250 4x2/4x4
RCL

E250
RVL, SVL

Bronco 4x4

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

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E.O. # A-10-384

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars _____ light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____

Manufacturer Ford Motor Company Engine Family K5.8TAC (KFM5.8T5HAC4)

Liter (CID) 5.0 (302) Eng. Type V8

Emission Control Sys. (Special Features) AIP, EGR, OC, TWC, HOS (EPFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) (EEC IV) Part No. -12A650-	Fuel System (EPFI) Part No. -9F593-	EGR Valve (Sonic) Part No. -9F483-	Catalyst (OC,TWC) Part No. -5F250-
754SR11A/N	F150 4x2	L4		E8TF-GA	E5TE-AB	E7TE-FA	E8TA-LB
	RCS, RCL		4500				
	SCS		4750				
	SCL		4750/ 5000*				
	F250 4x2						
	RCL		4750				

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.

* with air conditioning

Date of Issue: JUN 27 1988

Revisions:

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E.O. # A-10-384

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars _____ light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____

Manufacturer Ford Motor Company Engine Family K5.8TAC (KFM5.8T5HAC4)

Liter (CID) 5.0 (302) Eng. Type V8

Emission Control Sys. (Special Features) AIP, EGR, OC, TWC, HOS (EPFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) (EEC IV) Part No. -12A650-	Fuel System (EPFI) Part No. -9F593-	EGR Valve (Sonic) Part No. -9F483-	Catalyst (OC,TWC) Part No. -5F250-
754RR11A/N	F150 4x4	L4		E8TF-EA	E5TE-AB	E7TE-FA	E8TA-LB
	RCS, RCL		4750				
	SCS, SCL		5000				
	F250 4x4						
	RCL						
	Bronco 4x4						E8TA-MA

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.

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars ____ light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel ____

Manufacturer Ford Motor Company Engine Family K5.8TAC (KFM5.8T5HAC4)

Liter (CID) 5.0 (302) Eng. Type V8

Emission Control Sys. (Special Features) AIP, EGR, OC, TWC, HOS (EPFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) (EEC IV) Part No. -12A650-	Fuel System (EPFI) Part No. -9F593-	EGR Valve (Sonic) Part No. -9F483-	Catalyst (OC,TWC) Part No. -5F250-
754TR12A/N	E150	L4		E8TF-AHB	E5TE-AB	E7TE-FA	E8UA-NA
	RVS		4250/ 4500*				
	RVL		4750/ 5000*				
	SVL, CWL		5000/ 5250*				
	E250						E8TA-MA
	RVL		5000/ 5250*				
	SVL		5250				

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.

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars _____ light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____

Manufacturer Ford Motor Company Engine Family K5.8TAC (KFM5.8T5HAC4)

Liter (CID) 5.8 (351) Eng. Type V8

Emission Control Sys. (Special Features) AIP, EGR, OC, TWC, HOS (EPFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) (EEC IV) Part No. -12A650-	Fuel System (EPFI) Part No. -9F593-	EGR Valve (Sonic) Part No. -9F483-	Catalyst (OC,TWC) Part No. -5F250-
964RR00A/N	F150 4x2	A3		E8TF-ALB	E5TE-AB/	E8TE-AA	E8TA-PC
	RCS		4500		E5TE-BB		
	RCL		4750				
	SCS		4750/ 5000*				
	SCL		5000				
	F150 4x4						
	RCS		4750				
	RCL		5000				
	SCS						
	SCL		5250				
	F250 4x2						
	RCL		4750/ 5000*				
	F250 4x4						
	RCL		5000/ 5250*				
	Bronco 4x4		5250				E8TA-RB
	E150						E8UA-SB
	RVL		4750/ 5000*				
	SVL		5000/ 5250*				
	CWL		5250				
	E250						
	RVL		5250				
	SVL		5250/ 5500*				

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.

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars _____ light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____

Manufacturer Ford Motor Company Engine Family K5.8TAC (KFM5.8T5HAC4)

Liter (CID) 5.8 (351) Eng. Type V8

Emission Control Sys. (Special Features) AIP, EGR, OC, TWC, HOS (EPFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) (EEC IV) Part No. -12A650-	Fuel System (EPFI) Part No. -9F593-	EGR Valve (Sonic) Part No. -9F483-	Catalyst (OC,TWC) Part No. -5F250-
964RR10A/N	F150 4x2	A3		E9TF-AAA	E5TE-AB/ E5TE-BB	E8TE-AA	E8TA-PC
	RCS		4500				
	RCL		4750				
	SCS		4750/ 5000*				
	SCL		5000				
	F150 4x4						
	RCS		4750				
	RCL		5000				
	SCS						
	SCL		5250				
	F250 4x2						
	RCL		4750/ 5000*				
	F250 4x4						
	RCL		5000/ 5250*				
	Bronco 4x4		5250				E8TA-RB
	E150						E8UA-SB
	RVL		4750/ 5000*				
	SVL		5000/ 5250*				
	CWL		5250				
	E250						
	RVL		5250				
	SVL		5250/ 5500*				

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.

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E.O. # A-10-384

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars _____ light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____

Manufacturer Ford Motor Company Engine Family K5.8TAC (KFM5.8T5HAC4)

Liter (CID) 5.8 (351) Eng. Type V8

Emission Control Sys. (Special Features) AIP, EGR, OC, TWC, HOS (EPFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) (EEC IV) Part No. -12A650-	Fuel System (EPFI) Part No. -9F593-	EGR Valve (Sonic) Part No. -9F483-	Catalyst (OC,TWC) Part No. -5F250-
964SR00A/N	F150 4x2	A3		E8TF-APB	E5TE-AB/	E8TE-AA	E8TA-PC
	RCS		4500		E5TE-BB		
	RCL		4750				
	SCS		4750/ 5000*				
	SCL		5000				
	F150 4x4						
	RCS		4750				
	RCL		5000				
	SCS						
	SCL		5250				
	F250 4x2						
	RCL		4750/ 5000*				
	F250 4x4						
	RCL		5000/ 5250*				
	Bronco 4x4		5250				E8TA-RB
	E150						E8UA-SB
	RVL		4750/ 5000*				
	SVL		5000/ 5250*				
	CWL		5250				
	E250						
	RVL		5250				
	SVL		5250/ 5500*				

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.

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars _____ light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____

Manufacturer Ford Motor Company Engine Family K5.8TAC (KFM5.8T5HAC4)

Liter (CID) 5.8 (351) Eng. Type V8

Emission Control Sys. (Special Features) AIP, EGR, OC, TWC, HOS (EPFI, OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) (EEC IV) Part No. -12A650-	Fuel System (EPFI) Part No. -9F593-	EGR Valve (Sonic) Part No. -9F483-	Catalyst (OC,TWC) Part No. -5F250-
964SR10A/N R11A/N#	F150 4x2	A3		E9TF-ACA/ E9TF-ACB#	E5TE-AB/ E5TE-BB	E8TE-AA	E8TA-PC
	RCS		4500				
	RCL		4750				
	SCS		4750/ 5000*				
	SCL		5000				
	F150 4x4						
	RCS		4750				
	RCL		5000				
	SCS						
	SCL		5250				
	F250 4x2						
	RCL		4750/ 5000*				
	F250 4x4						
	RCL		5250$				
	Bronco 4x4		5250				E8TA-RB
	E150						E8UA-SB
	RVL		4750/ 5000*				
	SVL		5000/ 5250*				
	CWL		5250				
	E250						
	RVL		5250				
	SVL		5250/ 5500*				

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.

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Revisions: # 7-27-88 (R/C 5.8-101)
$ 9-30-88 (R/C 5.8-105)

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