State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-17-109
Relating to Certification of New Motor Vehicles

AMERICAN MOTORS CORPORATION

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 American Motors Corporation emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KAM150T5LAD9	2.5 (150)	Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst No On-Board Diagnostics (Exempted) (Central 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:

Loaded Vehicle Weight(lbs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0 - 3750	0.39	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)
0 - 3750	0.17	3.8	0.2

BE IT FURTHER RESOLVED: That the listed models are 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.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

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.) and with the 2 year/24,000 mile warranty provisions of 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 21st day of June, 1988.

K. D. Drachand, Chief
Mobile Source Division

E.O. # A-17-109

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer American Motors Corporation

Engine Family KAM150T5LAD9

Evaporative Family KT-150G-1S
KT-150H-1P
KT-150J-1S

Engine Type I4

Engine Liters (CID) 2.5 (150)

ABBREVIATIONS:

Ignition System
- CA - Centrifugal Advance
- ECU - Electronic Control Unit
- EI - Electronic Ignition
- ESAC - Electronic Spark Advance Control
- VA - Vacuum Advance
- VR - Vacuum Retard

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

VEHICLE MODELS:

- 81 = Wrangler 4WD
- 77 = Cherokee 4WD - 2 Door
- 78 = Cherokee 4WD - 4 Door
- 73 = Cherokee 2WD - 2 Door
- 74 = Cherokee 2WD - 4 Door
- 63 = Comanche 4WD - Short Bed
- 65 = Comanche 4WD - Long Bed
- 64 = Comanche 2WD - Short Bed
- 66 = Comanche 2WD - Long Bed

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 - Turbocharged
- SC - Supercharged
- IC - Intercooler or Aftercooler
- CCV - Combustion Chamber Valve
- OBD - On-Board Diagnostics

ENGINE: FRONT X MID ____ REAR ____

DRIVE: FWD ____ RWD X 4WD FULL TIME ____ 4WD PART TIME X

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars___ Light-Duty Trucks X Medium-Duty Vehicles___ Gas X Diesel___

Manufacturer American Motors Corporation Engine Family KAM150T5LAD9

Liter (CID) 2.5 (150) Engine Type I4

Emission Control System
(Special Features) EGR + HOS + TWC (CFI)

Engine Code	Vehicle Models (If Coded See Attachment)(Hp)	Trans Type	Equiv. Test Weight	Ign. System/ECU ESAC, ECU Part No.	Fuel System CFI, HOS Part No.	EGR Valve Part No.	Catalyst Part No.
1M1	81	M5	3250	33005023* 20.70.M57(61) 53 005 023 I.D. 20.70.M57	53 005 223	17086072	956023 25104455
1M3	73	M4	3250	53 004 763 I.D. 20.84.7E	53 005 222		
	73	M5		33004763* 20.84.7E(62)			
	64, 74, 77	M4	3375				
	64, 66, 74, 77	M5					
	63, 78	M4	3500				
	63, 78	M5					
	65	M5	3625				
1M4	73	M4	3125	33004763* 20.84.75(62)			
	73	M5					
	64, 74	M4	3250				
	64, 74	M5					
	77	M4	3375				

Comments:

(See Page 1 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.)

Date of Issue:

Revisions:*3-22-89: RC 119T. ADDITION OF OPTIONAL ECU P/Ns.

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars___ Light-Duty Trucks X Medium-Duty Vehicles___ Gas X Diesel___

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	66,77	M5					
	63, 78	M4	3500				
	63, 65, 78	M5					
1A1	73	A4	3250	53 004 764 I.D. 20.84.EE	53 005 221		
	64, 66, 74		3375	33004764* I.D.20.84EE(E2)			
	63, 77, 78		3500				
	65		3625				
1A2	64, 73, 74		3250				
	66, 77		3375				
	63, 78		3500				
	65		3625				

Comments:

(See Page 1 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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