State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-17-103
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 1988 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)
JAM242T5LND7	4.0 (242)	Exhaust Gas Recirculation Three-Way Catalyst Heated Oxygen Sensor (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:

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0-3750	0.39	9.0	1.0
3751-5750	0.50	9.0	1.0

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

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3750	0.14	1.9	0.1
3751-5750	0.16	3.5	0.1

BE IT FURTHER RESOLVED: That the listed models in the 0-3750 loaded vehicle weight class were 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 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, for the listed vehicles in the 0-3750 loaded vehicle weight class, 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 26th day of June, 1987.

K. D. Drachand, Chief
Mobile Source Division

E.O. # A-17-103

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer American Motors Corporation

Engine Family JAM 242 T5 LN D7

Evaporative Family JT-242H-1S

Engine Type I-6

Engine Liters (CID) 4.0 (242)

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

Exhaust Emissions Control System

- AIP - Air Injection-Pump
- AIV - Air Injection-Valve
- DBC - Dual Bed Catalyst
- EGR - Exhaust Gas Recirculation
- EIC - Electronic Injection Control
- EM - Engine Modification
- OC - Oxidation Catalyst
- OS - Oxygen Sensor
- HOS - Heated Oxygen Sensor
- 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

VEHICLE MODELS:

- 75 = Wagoneer 4WD
- 77 = Cherokee 4WD 2-Door
- 78 = Cherokee 4WD 4-Door
- 73 = Cherokee 2WD 2-Door
- 74 = Cherokee 2WD 4-Door
- 63 = Comanche 4WD P.U. - Short Bed
- 65 = Comanche 4WD P.U. - Long Bed
- 64 = Comanche 2WD P.U. - Short Bed
- 66 = Comanche 2WD P.U. - Long Bed

Special Features

- CCV - Combustion Chamber Valve
- CFI - Central Fuel Injection
- DID - Diesel Injection-Direct
- DIP - Diesel Injection-Prechamber
- EFI - Electronic Fuel Injection
- IC - Intercooler or Aftercooler
- MFI - Mechanical Fuel Injection
- OBD - On-Board Diagnostics
- TC - Turbocharged

ENGINE: FRONT X MID _____ REAR _____

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

E.O. # A-17-103

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer American Motors Corporation Engine Family JAM 242 T5 LN D7

Liter (CID) 4.0 (242) Engine Type I-6

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

Engine Code	Vehicle Models (If Coded See Attachment)(Hp)	Trans Type	Equiv. Test Weight	Ign. System/ECU ESAC, ECU Part No.	Fuel System CL, EFI Part No.	EGR Valve Part No.	Catalyst Part No.
1M1	73	M5	3375	53007843* 8933003901 8953005226	8953003956	8953004867	953305 25102763 956024 25104414
	74, 64	--	3500	53005429			
	77, 78, 63, 66		3625				
	65		3875				
1M2	73, 74, 64		3375	53007843*			
1M3	66		3500	53007843* 8953005407			
1M4	77, 78, 63		3625	53007843*			
	65		3750				
1A1	73, 74, 64	A4	3500	8933003900 8953005225			
	66	--	3625	53005428			
	75, 77, 78, 63		3750	53007842*			
	65		3875				

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: 4-20-89: FF25TC. RELEASE FOR SERVICE, THE 1989 ECU.
*10-13-89: FF39T. Revise ECU, throttle body and throttle position sensor calibrations.

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1A2	73		3375				
1A3	74, 64		3500	8953005406			
1A4	77, 78, 63, 66		3625				
	65		3750				

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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	77, 78, 63, 66		3625				
	65		3750				
1M3	73	M5	3375	8953005407			
	74, 64		3500				
	77, 78, 63, 66		3625				
	65		3875				
1M4	73, 74, 64		3375				
	66		3500				
	77, 78, 63		3625				
	65		3750				

Comments: Eng. Codes 1M3, 1M4, 1A3, 1A4 added under running change 88BT4.0-09

(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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	66		3625				
	75, 77, 78, 63		3750				
	65		3875				
1A4	73		3375				
	74, 64		3500				
	77, 78, 63, 66		3625				
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