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	-	lacement 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(Ibs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	(Grams per Mile)	(Grams per Mile)	(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	Carbon Monoxide	Nitrogen Oxides
	(Grams per Mile)	(Grams per Mile)	(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 ibs. 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 "Maifunction 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

K. D. Drachand, Chief Mobile Source Division

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer American Motors Corporation	Engine Family KAM150T5LAD9
Evaporative Family <u>KT-150G-1S</u> KT-150H-1P	Engine Type I4
KT-150J-1S	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	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
Fuel System CFI, EPFI, MPFI, SFI DID, DIP, HOS, OS nV - nVenturi Carburetor VV - Variable Venturi Carburetor	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
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	Special Features CFI - Central Fuel Injection
ENGINE: FRONT X MID REAR REAR	_
DRIVE: FWD RWD_ X 4WD FULL TIME_	4WD PART TIMEX

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger CarsLight-Duty Trucks_X_Medium-Duty VehiclesGas_X_Diesel						
Manufacturer_	American Motors Corporation	Engine Family KAM150T5LAD9				
Liter (CID)	2.5 (150)	Engine Type 14				
Emission Cont (Special Feat		1)				

Engine		Trans	Test	Ign. System/ECU ESAC, ECU	CFI, HOS		•
Code	Attachment)(Hp)	Type	Weight	Part No.	Part No.	Part No.	Part No.
i				33005023*			
į				20,70, M57(61) 53 005 023			055000
1M1	81	M5	3250	I.D. 20.70.M57	53 005 223	17086072	956023 25104455
				53 004 763	33 333 223	27000072	23104433
1M3	73	M4	3250	I.D. 20.84.7E	53 005 222		
-				33004763*	1		
		M5		20.84.7E(62)			
	64, 74, 77	M4	3375				
	64, 66, 74, 77	M5				1	
·].	63, 78	M 4	3500				
1	63, 78	M5					-
i i	65	M5	3625				
1M4	73	M4	3125	33004763* 20.84.75(62)			
	73	M 5					
	64, 74	M4	3250	!			
	64, 74	M5			i i		
<u>i</u> 1	77	M4	3375		 		

Comments:			·	
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(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.)

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

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger CarsLight-Duty Trucks_X Medium-	Outy Vehicles Gas X Diesel
Manufacturer American Motors Corporation	Engine Family KAM150T5LAD9
Liter (CID) 2.5 (150)	Engine Type <u>I4</u>
Emission Control System (Special Features)	
Vehicle Models	/ECU Fuel System EGR Valve Catal

Engine	Vehicle Models (If Coded See	Trans	Equiv. Test	Ign. System/ECU ESAC, ECU	Fuel System CFI, HOS	EGR Valve	Catalyst
Code	Attachment)(Hp)		Weight			Part No.	Part No.
			·				
į	•	i i					
	66,77	M5					
	63, 78	M4	3500				·
į	63, 65, 78	M5	:				•
			·	53 004 764	-		
1A1 ;	73	A4	3250	I.D. 20.84.EE	53 005 221		
i	64, 66, 74		3375	33004764* I.D.20.84EE(E2)		 	
	63, 77, 78	1 1	3500				
	65	1 1	3625				
1A2	64, 73, 74		3250				·
1	66, 77		3375		.		
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1	65		3625				
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Comments:					
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(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.	
050488		7994g/1

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