State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-17-105 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)
KAM242T5LND8	4.0	(242)	Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst No On-Board Diagnostics (Exempted) (Sequential 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	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(ibs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	(Grams per Mile)	(Grams per Mile)	(Grams per Mile
0 - 3750	0.17	2.9	0.1

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 2

day of June, 1988.

K. D. Drachand, Chief Mobile Source Division

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer American Motors Corp.	Engine Family <u>KAM242T5LND8</u>
Evaporative Family KT-242H-1S	Engine Type <u>I6</u>
	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, EPFI, MPFI, SFI DID, DIP, HOS, OS nV - nVenturi Carburetor VV - Variable Venturi Carburetor	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
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 - 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	
DRIVE: FWD RWD X 4WD FULL TI	ME 4WD PART TIMEX

L	anufacturer <u>America</u> iter (CID) <u>4.0 (2</u> 4	12)		ine Type		
	nission Control Syst Special Features)		+ TWC (SFI)			
Engine Code	Vehicle Models (If Coded See Attachment)(Hp)	Trans Test	Ign. System/ECU ESAC, ECU Part No.	! SFI	İ	_
1A2	73	3375		1		
	74, 64, 66	3500		1		
	77, 63 78, 65	3625 3750		 		
				1 1 1		
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 				† † †		
Co	omments:					
P1	See Page 1 for at ease refer to mar model and equipm used for testing.)	ufacturer's Hi ment. If two	list for corre	ct dyno test	HP settings	based

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars Light-Duty Trucks X Medium-	Outy Vehicles	Gas X Diesel
Manufacturer American Motors Corp.	Engine Family_	KAM242T5LND8
Liter (CID) 4.0 (242)	Engine Type	16
Emission Control System (Special Features)		·

Final	Vehicle Models	17	Equiv.	Ign.	Syst	em/ECU	Fue			EG	} V:	alve	Catalyst
Engine Code	(If Coded See Attachment)(Hp)		Test Weight		rt	ECU No.	F	SF. art	No.	Pa	art	No.	Part No.
1													•
				1		843*							956024
1M1	73	M5	3375	53 (005	429	53	003	956	53	004	867	25104414
	74, 64		3500										
	77, 63, 66		3625	·									
-	78, 65		3750				ļ !						
1M2	73, 64		3375	53 (007	843*							
	74, 66		3500			i							
	77, 78, 63		3625										
	65		3750							 			
1A1	73, 74, 64	A4	3500	53 (842 * 428	i i					1	`
	66		3625										
	77, 78, 63		3750										
	75, 65		3875						i				

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Comments:	 <u> </u>	· · · · · · · · · · · · · · · · · · ·	
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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: *10-11-89: FF13T. REVISE	ECU, THROTTLE
	BODY & THROTTLE POSITION	
050488	CALIBRATIONS.	7994a/1 >