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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	Displa	acement	Exhaust Emission Control Systems
	Liters (Cu	ubic Inches)	(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	

AMERICAN MOTORS CORPORATION

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".

GE 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 26π day of June, 1987.

K. D. Drachand, Chief Mobile Source Division

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

.

Manufacturer American Motors Corporation	_ Engine Family_ JAM 242 T5 LN D7
Evaporative Family_JT-242H-1S	_ Engine TypeI-6
	Engine Liters (CID) 4.0 (242)

ABBREVIATIONS:

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Ignition System CA - Centrifugal Advance ECU - Electronic Control Unit EI - Electronic Ignition ESAC - Electronic Spark Advance Control VA - Vacuum Advance VR - Vacuum Retard <u>Fuel System</u> 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 Contro 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		
VEHICLE MODELS: 75 = Wagoneer 4WD 77 = Charakaa 4WD 2 Door	WUTWC- Warm-Up Three-Way Catalyst <u>Special Features</u> <u>CCV - Combustion Chamber Valve</u> CFI - Central Fuel Injection DID Discol Injection-Direct		
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 2WD P.U Long Bed 64 = Comanche 2WD P.U Short Bed 66 = Comanche 2WD P.U Long Bed	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		

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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.	Part No.	Part No. 953305
ואו	73	1 1 1 M5	3375	53007843* 8933003901 8953005226	8953003956	8953004867	25102763 956024 25104414
	74, 64		3500	53005429	1		
	77, 78, 63, 66		3625	 			
	65	 	3875	·	<u> </u>		l
1M2	73, 74, 64		3375	53007843*	<u> </u>	1	
1M3	66	ļ	3500	8953005407	ļ	i T	
1M4	77, 78, 63	<u> </u>	3625	53007843*	<u> </u>	<u> </u>	l
	l 65		3750	1 8033003900	<u>i</u>	i	
141	73, 74, 64	A4	3500	8953005225	<u> </u>	1	1
	66	 	3625	53005428	<u> </u>	i T	
 	75, 77, 78, 63	<u> </u>	3750	53007842*	1	1	
	l 65		3875		<u>l</u>	1	

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 7994g/2 position sensor calibrations.

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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.	Part No.
142	73	1	3375				
1A3	74, 64	 	3500	8953005406	i	 	
1 1A4	77, 78, 63, 66	1	3625			j	
	65	 	3750	· · · · · · · · · · · · · · · · · · ·	1 1 1	<u> </u>	
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			<u> </u>	<u> </u>		1	1

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:

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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)

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

	Vehicle Models	1	Equiv.	Ign. System/ECU	Fuel System	EGR Valve	Catalyst
Engine	(If Coded See Attachment)(Hp)	Trans Type	⊺est° Weight	ESAC, ECU Part No.	CL, EFI Part No.	Part No.	Part No.
		i i i					
<u>1A2</u>	73	 	3375				
l 	74, 64		3500				
	77, 78, 63, 66		3625				
	65		3750				
1M3	73	M5	3375	8953005407			
	74, 64	* 	3500				
	77, 78, 63, 66	i 	3625				
	65		3875				
<u>1M4</u>	73, 74, 64		3375				
	66		3500				
	77, 78, 63		3625		····		
i	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.)

wate of Issue:_____ Revisions:

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars____Light-Duty Trucks_X_Medium-Duty Vehicles____Gas_X_Diese1____

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)

	Vehicle Models	 Tuinunn	Equiv.	Ign. System/ECU	Fuel System	EGR Valve	Catalyst
Code	(If Coded See Attachment)(Hp)	Type	Weight	Part No.	Part No.	Part No.	Part No.
<u>1A3</u>	73, 74, 64	A4	3500	8953005406			
 	66		3625				
l l l	75, 77, 78, 63		3750_			, , , ,	
l k l	65		3875				
1A4	73		3375			a 1 1 1	
 	74, 64		3500				
 	77, 78, 63, 66		3625		 		
	65		3750	I I I I		1 	
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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.)

ate of Issue:______ Revisions: