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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 Selow 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 $26 \, \text{M}$ day of June, 1987.

K. D. Drachand, Chief Mobile Source Division

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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 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 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 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
DRIVE: FWD RWD X 4WD FULL TI	ME 4WD PART TIME

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	sLight-Duty Trucks_X_Me American Motors Corporation		JAM 242 T5 LN D7
Liter (CID)		Engine Type	1-6
Emission Cont (Special Feat	rol System ures)	(EFI)	

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

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.)

	Revisions:	4-20-89:	FF25TC.	RELEASE	FOR	SERVICE
Date of Issue:	VEAL210H21	·	THE 1989	9 ECU.		

*10-13-89: FF39T. Revise ECU, throttle body

and throttle 7994g/2

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els Trar (Hp) Typ	ns Test pe Weight 3375 3500 3625	I FSAC.	No.	Fuel System CL, EFI Part No. 	EGR Valve Part No. 	
	3375 3500 3625			 		
56	3625	 8953005 	406	<u> </u>	<u> </u>	ı
56	T	i 				
	1 2750			<u> </u>		
•	3750]] 				
		<u> </u>	<u> </u>	<u> </u>	 	
		<u> </u> 				
					1	<u> </u>
			<u></u>	!	1	<u>i</u>
				 	1	<u> </u>
	<u> </u>	<u>i</u> !		1		<u> </u>
r abbrevia	ations and	d evapora	tive en	nission fami	ly identific	ation.
quipment.	II two t	est weig		listed, the	lower weigh	IT WILL
ן ונ	manuracc uipment.	manufacturer's nr uipment. If two t ting.)	uipment. If two test weig	uipment. If two test weights are	manufacturer's hr .135 tights are listed, the uipment. If two test weights are listed, the ting.)	•

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Pa	assenger Cars Lig	ht-Dut	y Trucks	s <u>X</u> Medium-C	Outy '	Vehicl	es	Gas_	X Die	sel	
Ma	anufacturer <u>America</u>	n Moto	rs Corpo	oration	Engi	ne Fan	nily	JAM 2	42 T5 I	LN D7	
Li	iter (CID) <u>4.0 (24</u>	2)	•		Engi	ne Typ	e	I-6			
	nission Control Syst Special Features)		GR + HO	S + TWC (EFI	<u>}</u>						-
Engine	Vehicle Models (If Coded See	Trans	Test	Ign. System	J	CL,	EFI	İ		į	•
Code	Attachment)(Hp)	i iype	weight	Part No.	<u> </u>	Pari	, NO.	i Par	L NO.	Part!	NO.
1A2	73	 	3375	 				! ! !		! ! !	
 	74, 64	 	3500	! ! !						 	
	77, 78, 63, 66	 	3625	i i i]]]] 	
 	65		3750	[
1M3	73	M5	3375	8953005407	,			 			
	74, 64	 	3500					i i !			
1 1	77, 78, 63, 66]]	3625	·	 			! ! !			
]] 	65		3875					 			
1M4	73, 74, 64		3375								
	66		3500								
1	77, 78, 63		3625								
			i								

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

3750

(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:

65

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Pa	ssenger Cars Ligh	nt-Duty	Trucks	<u>X</u> Medium-Duty	Vehicles	Gas X Dies	e1
Ма	nufacturer <u>America</u>	n Motor	s Corpo	oration Eng	ine Family	JAM 242 T5 L	N D7_
Li	ter (CID) 4.0 (24)	2)		Eng	ine Type	I-6	
	nission Control Systo Special Features)		GR + HOS	S + TWC (EFI)			
Engine¦ Code	Vehicle Models (If Coded See Attachment)(Hp)	Trans	Test	Ign. System/ECU ESAC, ECU Part No.	CL, EFI	i (
1A3	73, 74, 64	A4	3500	8953005406		 	
,	66	1	3625				-
	75, 77, 78, 63		3750			 	
,	65	 	3875	 	 	; i i	
1A4	73	 	3375_	f f 1		1 1	
	74, 64	 	 3500_			1	
	77, 78, 63, 66	 	3625		 	1	
	65	 	3750	 		1	
		 	 	 		1	
			! !				
Co	omments: Fng. Codes	1M3.	1M4. 1A:	3. 1A4 added und	der running c	hange 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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