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## State of California AIR RESOURCES BOARD

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## EXECUTIVE ORDER A-17-100 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 exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family		lacement Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JAM1.4V5FFA8	1.4	(85)	Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (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:

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Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per mile	Grams per Mile
0.39	7.0	0.7

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	Grams per Mile
0.18	2.2	0.4

BE IT FURTHER RESOLVED: That the listed models 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.

AMERICAN MOTORS CORPORATION

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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 listed vehicle models 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.).

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  $\frac{187}{1000}$  day of May, 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 J	AM 1.4 V5 FF A8
Evaporative FamilyJV-1.4D-1S	Engine Type I	-4
	Engine Liters (C	ID) <u> </u>

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 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: 93 = Alliance 3-Door 95 = Alliance 4-Door 96 = Alliance 2-Door 99 = Alliance 5-Door	<u>Special Features</u> <u>CCV</u> - Combustion Chamber Valve <u>CFI</u> - Central Fuel Injection <u>DID</u> - Diesel Injection-Direct <u>DIP</u> - Diesel Injection-Prechamber <u>EFI</u> - Electronic Fuel Injection <u>IC</u> - Intercooler or Aftercooler <u>MFI</u> - Mechanical Fuel Injection <u>OBD</u> - On-Board Diagnostics <u>TC</u> - Turbocharged
<i>SSUED:050187.</i> ENGINE: FRONT <u>X</u> MID <u></u> REAR_	
DRIVE: FWD <u>X</u> RWD <u>4</u> WD FULL	TIME 4WD PART TIME

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### 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars X Light-Duty Trucks Medium-Duty Vehicles Gas X Diesel

Manufacturer American Motors Corporation Engine Family JAM 1.4 V5 FF A8

Liter (CID) 1.4 (85) Engine Type I-4

Emission Control System (Special Features) <u>EGR + OS + TWC (CF</u>I)

- 1	Vehicle Models	[		Ign. System/ECU		EGR Valve	Catalyst
Engine  Code	(If Coded See Attachment)(Hp)		Test Weight	ESAC Part No.	CFI Part No.	Part No.	Part No
5M3	93, 95, 96, 99	M4	2375	8933004443 8933003663	8933004443 8933003663	17083792	25056552
	93, 95, 96	M5			 		·····
	99	 	2500	 	   		
5M4	93, 95, 96	M4	2250				
	99		2375				
	93, 96	M5	2250		1 		
	95, 99		2375	] 			
5A3	93, 95, 96	A3	2375	8933004444 8933003664	8933004444 8933003664		······
	99		2500	 	 	   	
_5A4	96	   	2250	] 	 		· · · · · · · · · · · · · · · · · · ·
	93, 95, 99	 	2375	 	   		
		1	   				

Comments: Ignition system/ECU column identifies ECU part number only.

(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: 050187 Revisions:

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Engine Family: JAM 1.4 V5 FF A8

1988 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

#### MARCH 18, 1987

VEHNT1.4						TIRES Standard tire	RDADLOAD HORSEPOWER						
						Detional tirm	COASTDOWN TIMES						
VEHICLE	TDTAL WT	AXLE WT.	TEST WT.	ENG	TRANS	t 1 I SIZE MODEL 1	PRES FR		(X) I USAGE		/С НР.	I NON I (SEC.)	A/C HP
ALLIANCE : MODEL 93 3-DUOR :		1 1243		   1.4∟ 		P155/80R13 XA4		   30)   	i 95X 5X	· · · · · ·	   6.7   7.8	14.60	; ; 6,;
3-DUUR     	2004	1184	1 2250 1	{     		:   P1 <b>55/80</b> R13 XA4   P155/ <b>80</b> R13 CORSA	•	1342 1342		   	\$   	13.96	i 1 5,1
	2864	1248     	2375     	   1.4L     	t t t	P155/80R13 XA4 P155/80R13 CORSA P155/80R13 CORSA P175/70R13 CORSA P185/60R14 EAGLE 6T	i I	t : 1 :	5% 35%		6.7 7.9 7.2 6.9 7.8	14.60 14.43 14.85 13.48	6 6 6 6
	2007	   1188     1   	15 1 2250 1 1 1 1	1 	 1 1	1   P155/80R13 X/14   P155/80R13 CORSA   P175/70R13 XA4   P175/70R13 CORSA   P185/60R14 EAGLE BT	t 358) t t	1 349   1 349   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5% 25% 5%			13.96 13.74 13.51 12.79	t 5.: 1 6. 1 6. 1 6. 1 7.
:         	2090	1274	2375 1	   1.4L   	   	P155/88R13 CORSA P175/78R13 XA4	1 1 1		5% 15% 5%	12.76	1 7.3		(         
: ; ; ; ;	2035	4 1 1215 1 1 1	, 1 1 1 1 1 1 1 1		1 7 1 1		1 1349 1	   340       	98% 5% 5%	10.24		13.84	  -   6.   6.   7.
ALLIANCE 1 MODEL 95 1 4-DOUR 1			2375	1.4L			30	369			7.3		
   	2689	1 1211	2258		ı i	P155/BGR13 CORSA		1 1 1 1 1 1	95% (			13,14	<u>.</u>
     	2073	1274       	2375	1.4.		P155/B0R13 XA4		30 I	58% ( 5% ( 35% ( 5% ( 5% (	13.07 12.92 12.46 11.99 10.45		13,75 13,43 13,18 12,44 11,82	6. 4. 7. 7.
	2012	1215             	2259			P155/80R13 XA4 1 P155/80R13 CORSA 1 P175/70R13 XA4 1 P175/70R13 CORSA 1 P185/60R14 EAGLE 5T 1	30	30           	5% 1 25% 1 5% 1				6. 6. 7.
1		1 1381   1 1381   1   1   1   1   1   1   1   1			1	P155/88R13 XA4 P155/88R13 CORSA P175/78R13 CORSA P175/78R13 CORSA P185/68R14 EAGLE GT	      28	26 I	5X   15X	12.74 12.67 12.28 11.53 18.64	7.7 1		• •
:	2045			         	1	P155/88R13 X/H H155/88R13 COR8A P175/78R13 XA4 P175/78K13 COR8A P185/68R14 EAGLE GT	38     	361	991 ( 51 ( 51 ( 51 ( 51 ( 51 ( 51 ( 51 ( 5		ا ہے۔ ۲ (۱۹۹۵) ۲ (۱۹۹۵) ۲ (۱۹۹۵) ۲ (۱۹۹۵) ۲ (۱۹۹۵)	13.44 13.39 12.90 12.13 10.56	*. 7. 7. 7. 7.

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Engine Family: JAM 1.4 V5 FF A8

1988 VEHICLE WEIGHTS AND RUADLUAD HORSEPOWER

MARCH 18, 1987

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						TIRES Standard tire	SHUWN liste	d ist	l I		HULOND N L COASTROM	N TIMES	
		· ·	EHWT1.4	ł		1 Optional tires also listed				COASTDOWN TIMES			
VEHICLE	TDÍAL WT.	AXLE WT.		ENG	TRANS	t I SIZE MODEL	PRESS I FR	iure Rr I	(%)   USAGE	A/ (BEC.)	С 1 НР. 1		
ALLIANCE : MODEL 96 1	2031	   1239   	2375 i			1 P155/80R13 XA4 1 P155/80R13 CORSA	1 310 1	30	75% 1	13.87 12.92			<b>6</b> .
2-000 <del>R</del> (   	1976	1 1190 1 1 1190 1	   2250   			1 P155/80R13 XA4 1 P155/80R13 COR8A	1 342 1 1 342 1	38	5% I			13,16	\$. \$.
:- : : : :	2040	1243	2375	1.4L	t 1 5	1 P155/80R13 XA4 1 P155/80R13 CORSA 1 P175/70R13 XA4	1	30) 1	59%   5%   35%   5%	12.46	7,5   7,4   7,7	13.43	6. 6. 7. 7.
1 2 1 1 2	1980	: 1184   1 1 1 1	2258	L 1 1 1	 	1 P155/80R13 CORSA 1 P175/70R13 XA4	1 29	1 1 1	5% 25% 5% 5%		з.		
           	2067	1 1270 1	   2375       	; ; ; ].4L ; ; ; ; ;	1	P155/80R13 CORSA   P175/70R13 XA4	1 38	   349     	1	12.74 12.67 12.29 11.53	7.5 7.7 8.0 7.8	13.39	1 6 1 7 1 7 1 7
           	2967	1 1 1 1 1 1	   2250       	E E I I	1 1 1 1	1   P155/80R13 XA4   P155/80R13 CORSA   P175/70R13 XA4   P175/70R13 CORSA   P185/60R14 EAGLE GT	1 349 1 1 1 219	1	: 5% : 5% : 5%	E I I I	i T	12.85	1 / 1 / 1 / 7 / 7 / 7 /
ALLIANCE : MODEL 99 1	2124	1 1265			1 1 H4 1	P155/80R13 XA4 1 P155/80R13 CORSA	1   38)	1 309 1	1	13.87	1 6.7 1 7.0		1 
5-000#     ;	2868	1286		1	1	P155/80R13 XA4   P155/80R13 CORSA	39	t i	95% 5%	t,	1   	1 14.40	1.6 1.6
1 1 1 1	2138	1270	1 2500 1 1	   1.4L       	1 H5	I P155/80R13 XA4 I P155/80R13 CORSA I P175/20R13 XA4 I P175/70R13 XA4 I P175/70R13 CORSA I P185/60R14 EAGLE GT	1 <b>30</b> 1 1	1 <b>30</b> 1 1	1 59X 1 5X 1 35X 1 35X	1 14.28 1 14.06 1 13.78 1 13.19	6.7 7.0 7.2 6.9 7.8	1 15.00 1 14.00 1 14.49 1 13.03 1 11.90	
1             	2073	   1218     	) 1 2375 1 1 1	\$ ↓ \$ 1		1 1 P155/80R13 XA4 1 P155/80R13 COR6A 1 P175/70R13 XA4 1 P175/70R13 COR6A 1 P185/60R14 EAGLE GT	1	1	: 5% : 25% : 5%	1   	a ‡ L £ L	14.40 14.43 14.45 14.45 13.49 11,59	1 4 1 6 1 6 1 6 1 7
1         	2155	-    1296   	2589	1 1.4L 1	1 A3	t P155/60R13 XA4 i P155/60R13 XA4 i P155/60R13 CORSA i P175/70R13 XA4 i P175/70R13 CORSA	1 1	   	5%   15%   5%	1 12.41	1 7.3	1 14.31 1 14.24 1 13.48 1 13.01 1 11.00	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2299	   1237   	1 1 1 2375 1 1	       	       	: P185/60R14 EAGLE GT : P155/80R13 XA4 : P155/80R13 CORSA : P175/70R13 XA4 : P175/70R13 CURSA : P185/60R14 EAGLE GT	309   	1 28 1 38 1 38 1	5%     90%   5%   5%   5%			1 11.00 1 13.91 1 13.84 1 13.42 1 12.41 1 10.75	

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