State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-17-87
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 1986 model-year American Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
GAM1.4V5FFA3	85	(1.4)	Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (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:

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

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

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.17	1.6	0.5

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.

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 1981 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 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 Health and Safety Code Section 43204, provided, however, that jurisdiction is hereby reserved to modify these provisions to the extent made necessary by an EPA waiver decision, in order to assure that the listed vehicles comply with the minimum federal requirements applicable in California.

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 3rd day of June, 1985.

K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer American Motors Corporation

Executive Order No. A-17-87

Engine Family GAM 1.4 V5 FF A3

Evaporative Family GV-1.4D-1S

Engine CID (Liters) 85 (1.4)

ABBREVIATIONS:

Ignition System

- CA - Centrifugal Advance
- EEC - Electronic Engine Control
- 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
- CL - Closed Loop
- EGR - Exhaust Gas Recirculation
- EM - Engine Modification
- OC - Oxidation Catalyst System
- TOC - Trap Oxidizer Continual
- TOP - Trap Oxidizer Periodical
- TR - Thermal Reactor
- TWC - Three-Way Catalyst System

Fuel System

- CFI, CL, DID, DIP, EFI, MFI
- nV - nVenturi Carburetor
- VV - Variable Venturi

Special Features

- CCV - Combustion Chamber Valve
- CFI - Central Fuel Injection
- DID - Diesel Injection-Direct
- DIP - Diesel Injection-Prechamber
- EFI - Electronic Fuel Injection
- IC - Intercooler
- MFI - Mechanical Fuel Injection
- TC - Turbocharged

VEHICLE MODELS:

- 93 - Encore 3-Door
- 95 - Alliance 4-Door
- 96 - Alliance 2-Door
- 99 - Encore 5-Door

DRIVE SYSTEM: Front ENGINE/ Front -WHEEL DRIVE

E.O. #A -17-87

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer American Motors Corporation Page 2.1

Engine Family GAM 1.4 V5 FF A3 Engine Code ___

ECS (Special Features) EGR + CL + TWC (CFI) CID (Liter) Type 85(1.4) I-4

Engine Code	Vehicle Models (If Coded See Attachment)(Hp)	Trans	Equiv. Test Weight	Ignition System ESAC Part No.	Fuel System CFI Part No.	EGR Valve Part No.	Label Ident. Part No.
5M3	93, 95, 96	M4 M5	2375	8933003663	8933003663	8933003208	8933003124
	99		2500				
5M4	93, 95, 96	M4	2250				
	99		2375				
	96	M5	2250				
	93, 95, 99		2375				
5A3	93, 95, 96	A3	2375	8933003664	8933003664		
	99		2500				
5A4	96		2250				
	93, 95, 99		2375				

Comments: Page and codes added under Running Change 86BV1.4-08.

(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.)

Note: Add 10% to dyno test HP for air conditioning usage.

Date of Issue:

E.O.# A-17-87 PAGE 3

ENGINE FAMILY: GAM1.4V5FFA3

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

							FRONTAL AREA HORSEPOWER				TIRES SHOWN			ROADLOAD HP. & COASTDOWN TIMES			
				I-4A95			BIAS TIRE		RADIAL TIRE		Standard tire listed 1st Optional tires also listed						
VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	ENG	TRAN		A/C	NON A/C	A/C	NON A/C	SIZE/MODEL	PRESSURE FR	PRESSURE RR	(sec)	AC Hp	(sec)	Hp wo AC
ALLIANCE 95 4-DOOR	2006	1201	2250	1.4L	M4						P155/80R13 VIVA	30	30			12.68	6.5
											P175/70R13 XA4					12.85	7.2
											P175/70R13 CORSA					12.11	7.0
											P185/60R14 EAGLE	28	28			10.65	7.6
	(2093)	1282	2375	1.4L	(Use M5 Tire Data for 2375 Test Wt)						185/60R14 MXV	28	28			11.85	7.6
	2053	1233	2375	1.4L	M5						P155/80R13 VIVA	30	30	12.57	7.2	13.22	6.5
	(2109)	1292									P175/70R13 XA4			12.46	7.9	13.10	7.2
											P175/70R13 CORSA			11.99	7.7	12.64	7.0
											P185/60R14 EAGLE	28	28	10.45	8.4	11.02	7.6
											185/60R14 MXV	28	28	10.76	8.4	11.35	7.6
	2078	1257	2375	1.4L	A3						P155/80R13 VIVA	30	30	12.30	7.4	12.95	6.7
	(2134)	1317									P175/70R13 XA4			11.20	8.0	12.90	7.3
											P175/70R13 CORSA			11.53	7.8	12.13	7.1
											P185/60R14 EAGLE	28	28	10.04	8.5	10.56	7.7
											185/60R14 MXV	28	28	10.41	8.5	10.90	7.7

E.O.#A-17-87 PAGE 4

ENGINE FAMILY: GAM1.4V5FFA3

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

1-4A96						FRONTAL AREA HORSEPOWER				TIRES SHOWN			ROADLOAD HP. & COASTDOWN TIMES			
						BIAS TIRE		RADIAL TIRE		Standard tire listed 1st						
										Optional tires also listed						
VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	ENG	TRAN	A/C	NON A/C	A/C	NON A/C	SIZE/MODEL	PRESSURE FR	PRESSURE RR	(sec)	AC Hp	(sec)	Hp wo AC
ALLIANCE	1975	1187	2250	1.4L	M4					P155/80R13 VIVA	30	30			12.68	6.5
96										P175/70R13 XA4					12.85	7.2
2-DOOR										P175/70R13 CORSA					12.11	7.0
										P185/60R14 EAGLE	28	28			10.65	7.6
										185/60R14 MXV	28	28			10.85	7.6
	[(2831)]	1247	2375	1.4L	M4					P155/80R13 VIVA	30	30	12.57	7.2		
										P175/70R13 XA4			12.46	7.9		
										P175/70R13 CORSA			11.99	7.7		
										P185/60R14 EAGLE	28	28	10.45	8.4		
										185/60R14 MXV	28	28	10.76	8.4		
	1980	1192	2250	1.4L	M5					P155/80R13 VIVA	30	30			12.68	6.5
										P175/70R13 XA4					12.85	7.2
										P175/70R13 CORSA					12.11	7.0
										P185/60R14 EAGLE	28	28			10.65	7.6
										185/60R14 MXV	28	28			10.85	7.6
	[(2836)]	1251	2375	1.4L	M5					P155/80R13 VIVA	30	30	12.57	7.2		
										P175/70R13 XA4			12.46	7.9		
										P175/70R13 CORSA			11.99	7.7		
										P185/60R14 EAGLE	28	28	10.45	8.4		
										185/60R14 MXV	28	28	10.76	8.4		
	2004	1216	2250	1.4L	A3					P155/80R13 VIVA	30	30			12.30	6.7
										P175/70R13 XA4					12.30	7.3
										P175/70R13 CORSA					11.71	7.1
										P185/60R14 EAGLE	28	28			10.32	7.7
										185/60R14 MXV	28	28			10.59	7.7
	[(2860)]	1276	2375	1.4L	A3					P155/80R13 VIVA	30	30	12.30	7.4		
										P175/70R13 XA4			12.20	8.0		
										P175/70R13 CORSA			11.53	7.8		
										P185/60R14 EAGLE	28	28	10.04	8.5		
										185/60R14 MXV	28	28	10.41	8.5		

E.O. #A-17-87 PAGE 5
ENGINE
FAMILY: GAM1.4V5FFA3

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

1-4E93

VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	ENG	TRAN	FRONTAL AREA HORSEPOWER BIAS TIRE A/C	BIAS TIRE NON A/C	RADIAL TIRE A/C	RADIAL TIRE NON A/C	TIRES SHOWN Standard tire listed 1st Optional tires also listed SIZE/MODEL	PRESSURE FR	PRESSURE RR	ROADLOAD HP. & COASTDOWN TIMES (sec)	AC Hp	(sec)	Hp no AC
ENCORE 93 3-DOOR	1996	1187	2250	1.4L	M4					P155/80R13 VIVA	30	30			13.67	5.8
										P175/70R13 XA4					13.51	6.4
										P175/70R13 CORSA					12.79	6.2
										P185/60R14 EAGLE	28	28			11.05	7.1
	[(2084)]	1264	2375	1.4L	(See MS Tire Data at 2375# Test Wt.)					185/60R14 MXV	28	28			11.34	7.1
	2033	1209	2375	1.4L	MS					P155/80R13 VIVA	30	30	13.48	6.6	14.10	6.0
	[(2089)]	1269								P175/70R13 XA4			13.36	7.2	14.05	6.5
										P175/70R13 CORSA			12.78	6.9	13.40	6.3
										P185/60R14 EAGLE	28	28	11.03	7.8	11.59	7.1
										185/60R14 MXV	28	28	11.29	7.8	11.88	7.1
	2057	1234	2375	1.4L	AS					P155/80R13 VIVA	30	30	12.80	6.8	13.42	6.2
	[(2113)]	1293								P175/70R13 XA4			12.76	7.3	13.42	6.6
										P175/70R13 CORSA			12.03	7.2	12.61	6.5
										P185/60R14 EAGLE	28	28	10.24	8.0	10.75	7.3
										185/60R14 MXV	28	28	10.70	8.0	11.24	7.3

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

1-4E99

VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	ENG	TRAN	FRONTAL AREA HORSEPOWER BIAS TIRE A/C	BIAS TIRE NON A/C	RADIAL TIRE A/C	RADIAL TIRE NON A/C	TIRES SHOWN Standard tire listed 1st Optional tires also listed SIZE/MODEL	PRESSURE FR	PRESSURE RR	ROADLOAD HP. & COASTDOWN TIMES (sec)	AC Hp	(sec)	Hp no AC
ENCORE 99 5-DOOR	2049	1203	2375	1.4L	M4					P155/80R13 VIVA	30	30			14.10	6.0
										P175/70R13 XA4					14.05	6.5
										P175/70R13 CORSA					13.40	6.3
										P185/60R14 EAGLE	28	28			11.59	7.1
										185/60R14 MXV	28	28			11.88	7.1
	[(2147)]	1283	2500	1.4L	M4					P155/80R13 VIVA	30	30	13.83	6.7		
										P175/70R13 XA4			13.78	7.2		
										P175/70R13 CORSA			13.19	6.9		
										P185/60R14 EAGLE	28	28	11.41	7.8		
										185/60R14 MXV	28	28	11.67	7.8		
	2107	1234	2375	1.4L	MS					P155/80R13 VIVA	30	30			14.10	6.0
										P175/70R13 XA4					14.05	6.5
										P175/70R13 CORSA					13.40	6.3
										P185/60R14 EAGLE	28	28			11.59	7.1
										185/60R14 MXV	28	28			11.88	7.1
	[(2163)]	1293	2500	1.4L	MS					P155/80R13 VIVA	30	30	13.83	6.7		
										P175/70R13 XA4			13.78	7.2		
										P175/70R13 CORSA			13.19	6.9		
										P185/60R14 EAGLE	28	28	11.41	7.8		
										185/60R14 MXV	28	28	11.67	7.8		
	2132	1258	2375	1.4L	AS					P155/80R13 VIVA	30	30			13.42	6.2
										P175/70R13 XA4					13.42	6.6
										P175/70R13 CORSA					12.61	6.5
										P185/60R14 EAGLE	28	28			10.75	7.3
										185/60R14 MXV	28	28			11.24	7.3
	[(2188)]	1318	2500	1.4L	AS					P155/80R13 VIVA	30	30	13.10	6.9		
										P175/70R13 XA4			13.17	7.3		
										P175/70R13 CORSA			12.41	7.2		
										P185/60R14 EAGLE	28	28	10.80	8.0		
										185/60R14 MXV	28	28	11.08	8.0		