

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:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
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:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0.39	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
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

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEETPassenger Cars X Light-Duty Trucks Medium-Duty Vehicles Gas X Diesel Manufacturer American Motors Corporation Page 2.1Engine 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:

ENGINE FAMILY: GAM 1.4 V5 FFA3

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

VEHICLE	TOTAL WT.	AILE WT.	TEST WT.	ENG	TRAN	FRONTAL AREA HORSEPOWER				TIRES SHOWN		ROADLOAD HP. & COASTDOWN TIMES						
						A/C	A/C	A/C	A/C	MON	MON	Standard tire listed 1st	Optional tires also listed	(sec)	AC Hp	(sec)	HP	
											FR	RR						
ALLIANCE 95 4-DOOR	2806	1201	2250	1.4L	M4						P155/60R13 VIVA		30	30			12.60	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
	(12093)	1282	2375	1.4L (Use M5 Tire Data for 2375 Test Wt)								P185/60R14 MXV		28	28			11.85
	2053	1233	2375	1.4L	M5						P155/60R13 VIVA		30	30	12.57	7.2	13.22	6.5
	(12109)	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
											P185/60R14 MXV		28	28	10.76	8.4	11.35	7.6
	2078	1257	2375	1.4L	A3						P155/60R13 VIVA		30	30	12.30	7.4	12.95	6.7
	(12134)	1317									P175/70R13 XA4				11.20	8.0	12.90	7.3
											P175/70R13 CORSA				11.53	7.0	12.13	7.1
											P185/60R14 EAGLE		28	28	10.04	8.5	10.56	7.7
											P185/60R14 MXV		28	28	10.41	8.5	10.90	7.7

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 ENGINE
 FAMILY: GAMI.4V5 FFA3

1984 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

VEHICLE	1-4EY3					FRONTAL AREA HORSEPOWER				TIRES SHOWN			ROADLOAD HP. & COASTDOWN TIMES					
	TOTAL WT.	AXLE WT.	TEST WT.	ENB	TRAN	BIAS TIRE		RADIAL TIRE		Standard tire listed 1st Optional tires also listed			FR	RR	(sec)	AC Hp	(sec)	Hp w/ AC
						NON A/C	NON A/C	NON A/C	NON A/C	SIZE/MODEL	PRESSURE							
						A/C	A/C	A/C	A/C		FR	RR						
ENCORE 93 3-DOOR	1996	1187	2280	1.4L	M4					P155/80R13 VIVA P175/70R13 XA4 P175/70R13 CORSA P185/60R14 EAGLE P185/60R14 NIV	30 28 28 28	30 28 28 28			13.67 13.51 12.79 11.05 11.36		5.8 6.4 6.2 7.1 7.1	
[(2084)]	1264	2375	1.4L (See NS)			Tire Data at 2375# Test Wt.												
	2033 [(2089)]	1209 1249	2375	1.4L	M8					P155/80R13 VIVA P175/70R13 XA4 P175/70R13 CORSA P185/60R14 EAGLE P185/60R14 NIV	30 28 28 28	30 28 28 28	13.48 13.36 12.78 11.03 11.29	6.4 7.2 6.9 7.8 7.8	14.10 14.05 13.40 11.59 11.88		6.0 6.5 6.3 7.1 7.1	
	2057 [(2113)]	1234 1293	2375	1.4L	A3					P155/80R13 VIVA P175/70R13 XA4 P175/70R13 CORSA P185/60R14 EAGLE P185/60R14 NIV	30 28 28 28	30 28 28 28	12.80 12.76 12.03 10.24 10.70	6.8 7.3 7.2 8.0 8.0	13.42 12.41 10.75 11.26		6.2 6.6 6.5 7.3 7.3	

1984 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

VEHICLE	1-4E99					FRONTAL AREA HORSEPOWER				TIRES SHOWN			ROADLOAD HP. & COASTDOWN TIMES					
	TOTAL WT.	AXLE WT.	TEST WT.	ENB	TRAN	BIAS TIRE		RADIAL TIRE		Standard tire listed 1st Optional tires also listed			FR	RR	(sec)	AC Hp	(sec)	Hp w/ AC
						NON A/C	NON A/C	NON A/C	NON A/C	SIZE/MODEL	PRESSURE							
						A/C	A/C	A/C	A/C		FR	RR						
ENCORE 99 5-DOOR	2049	1203	2375	1.4L	M4					P155/80R13 VIVA P175/70R13 XA4 P175/70R13 CORSA P185/60R14 EAGLE P185/60R14 NIV	30 28 28 28	30 28 28 28			14.10 14.05 13.40 11.59 11.88		6.0 6.5 6.3 7.1 7.1	
[(2147)]	1283	2500	1.4L	M4					P155/80R13 VIVA P175/70R13 XA4 P175/70R13 CORSA P185/60R14 EAGLE P185/60R14 NIV	30 28 28 28	30 28 28 28	13.83 13.78 13.19 11.41 11.67	6.7 7.2 6.9 7.8 7.8					
	2107	1234	2375	1.4L	M8					P155/80R13 VIVA P175/70R13 XA4 P175/70R13 CORSA P185/60R14 EAGLE P185/60R14 NIV	30 28 28 28	30 28 28 28			14.10 14.05 13.40 11.59 11.88		6.0 6.5 6.3 7.1 7.1	
[(2163)]	1293	2500	1.4L	M8					P155/80R13 VIVA P175/70R13 XA4 P175/70R13 CORSA P185/60R14 EAGLE P185/60R14 NIV	30 28 28 28	30 28 28 28	13.83 13.78 13.19 11.41 11.67	6.7 7.2 6.9 7.8 7.8					
	2132	1288	2375	1.4L	A3					P155/80R13 VIVA P175/70R13 XA4 P175/70R13 CORSA P185/60R14 EAGLE P185/60R14 NIV	30 28 28 28	30 28 28 28			13.42 13.42 12.41 10.75 11.26		6.2 6.6 6.5 7.3 7.3	
[(2188)]	1318	2500	1.4L	A3					P155/80R13 VIVA P175/70R13 XA4 P175/70R13 CORSA P185/60R14 EAGLE P185/60R14 NIV	30 28 28 28	30 28 28 28	13.10 13.17 12.41 10.50 11.08	6.9 7.3 7.2 8.0 8.0					