

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-17-83  
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>
GAM1.7V5FGA1	105 (1.7)	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>
0.13	1.7	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 3<sup>rd</sup> 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-17-88  
 Engine Family GAM 1.7 V5 FG A1 Evaporative Family GV-1.7F-1S  
 Engine CID (Liters) 105 (1.7)

## 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  
 97 = Alliance Convertible  
 99 = Encore 5-Door

DRIVE SYSTEM: Front ENGINE/ Front -WHEEL DRIVE

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEETPassenger Cars  Light-Duty Trucks  Medium-Duty Vehicles  Gas  Diesel Manufacturer American Motors Corporation Page 2.1Engine Family GAM 1.7 V5 FG A1 Engine Code ECS (Special Features) EGR + CL + TWC (CFI) CID (Liter) Type 105(1.7)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.
5A5	96	A3	2375	8933002494	8933002494	8933003184	8933002347
	93, 95, 99		2500				
	97		2625				
5A6	95, 96		2375				
	93, 99		2500				
	97		2625				
5M5	96	M5	2375	8933002495	8933002495		
	93, 95, 99		2500				
	97		2625				
5M6	93, 95, 96		2375				
	99		2500				
	97		2625				

Comments: Page and codes added under Running Change 86BV1.7-09.

(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.)

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

Date of Issue:

ENGINE FAMILY: GAM 1.7V5 FGAI

1985 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

1-749596						FRONTAL AREA HORSEPOWER				TIRES SHOWN		ROADLOAD HF. & COASTDOWN TIMES								
						BIAS TIRE		RADIAL TIRE		Standard tire listed 1st		Optional tires also listed								
VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	ENG	TRAN	NON A/C		NON A/C		SIZE/NOCEL	PRESSURE		(sec)	AC Hp	(sec)	Hp				
						A/C	A/C	A/C	A/C		FR	RR					wd	AC		
ALLIANCE 95 4-DOOR	2096	1261	2375	1.7L	N5					P155/80R13 VIVA	30	30					13.22	6.5		
										P175/70R13 XA4							13.18	7.2		
										P175/70R13 CORSA							12.64	7.8		
										P185/60R14 EAGLE	28	28					11.82	7.6		
										P185/60R14 MXV	28	28					11.35	7.6		
	[(2152)]	1346	2588	1.7L	N5						P155/80R13 VIVA	30	30	12.84	7.3					
											P175/70R13 XA4			12.93	7.9					
											P175/70R13 CORSA			12.33	7.7					
											P185/60R14 EAGLE	28	28	10.87	8.5					
											P185/60R14 MXV	28	28	11.21	8.5					
ALLIANCE 96 2-DOOR	2121	1385	2375	1.7L	A3					P155/80R13 VIVA	30	30								
										P175/70R13 XA4									12.95	6.7
										P175/70R13 CORSA									12.13	7.1
										P185/60R14 EAGLE	28	28							10.56	7.7
										P185/60R14 MXV	28	28							10.98	7.7
	[(2177)]	1365	2588	1.7L	A3						P155/80R13 VIVA	30	30	12.63	7.5					
											P175/70R13 XA4			12.55	8.0					
											P175/70R13 CORSA			11.96	7.8					
											P185/60R14 EAGLE	28	28	10.33	8.6					
											P185/60R14 MXV	28	28	10.86	8.6					
ALLIANCE 96 2-DOOR	2055	1262	2375	1.7L	N5					P155/80R13 VIVA	30	30								
										P175/70R13 XA4									12.46	7.9
										P175/70R13 CORSA									11.99	7.7
										P185/60R14 EAGLE	28	28							10.45	8.4
										P185/60R14 MXV	28	28							10.76	8.4
	[(2135)]	1346	2588	1.7L	A3						P155/80R13 VIVA	30	30	12.30	7.4	12.95	6.7			
											P175/70R13 XA4			12.20	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			
											P185/60R14 MXV	28	28	10.41	8.5	10.98	7.7			

ENGINE FAMILY: GAM 1.7 V5 FGM

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	ENG	TRAN	FRONTAL AREA HORSEPOWER				TIRES SHOWN		ROADLOAD HP. & COASTDOWN TIMES								
						BIAS TIRE		RADIAL TIRE		Standard tire listed 1st		Optional tires also listed		PRESSURE	FR	RR	(sec)	AC Hp	(sec)	Hp
						NON A/C	A/C	NON A/C	A/C	NON A/C	A/C	SIZE/MODEL								
1-7A97																				
ALLIANCE 97 C-TIBLE	2270 [(2326)]	1334	2625	1.7L	MS							P155/80R13 VIVA	30	30	13.35	7.3	14.03	6.6		
												P175/70R13 XA4			13.53	7.9	14.30	7.2		
												P175/70R13 CORSA			12.94	7.7	13.62	7.0		
												P185/60R14 EAGLE	28	28	11.24	8.5	11.84	7.7		
												P185/60R14 NIV	28	28	11.00	8.5	12.45	7.7		
	2295 [(2351)]	1359	2625	1.7L	A3							P155/80R13 VIVA	30	30	13.12	7.6	13.81	6.9		
		1418										P175/70R13 XA4			13.20	8.0	13.95	7.3		
												P175/70R13 CORSA			12.52	7.0	13.13	7.1		
												P185/60R14 EAGLE	28	28	10.76	8.7	11.30	7.9		
												P185/60R14 NIV	28	28	11.30	8.7	11.92	7.9		

ENGINE FAMILY: GAM1.7V5FGAI

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER  
MARCH 25, 1986

VEHICLE	1-787399					FRONTAL AREA HORSEPOWER				TIRES SHOWN Standard tire listed 1st Optional tires also listed				ROADLOAD HP. & CONSTRAIN TIRES			
	TOTAL WT.	AXLE WT.	TEST WT.	ENG	TRAN	BIAS TIRE		RADIAL TIRE		PRESSURE		AC Hp		Hp			
						A/C	NON A/C	A/C	NON A/C	PR	FR	(sec)	AC Hp	(sec)	HP		
ENCORE 73 3-DOOR	2115	1265	2375	1.7L	FB					P185/60R13 V14H	30	30			14.10	6.0	
										P175/70R13 XA4					14.05	6.8	
										P175/70R13 CORBA					13.40	6.3	
										P185/60R14 EABLE	28	28			11.59	7.1	
										185/60R14 HVV	28	28			11.88	7.1	
	(2171)	1328	2500	1.7L	FB					P185/60R13 V14H	30	30	13.83	6.7			
										P175/70R13 XA4				7.2			
										P175/70R13 CORBA				6.9			
										P185/60R14 EABLE	28	28	11.41	7.8			
										185/60R14 HVV	28	28	11.67	7.8			
	2146	1295	2500	1.7L	AS					P185/60R13 V14H	30	30	13.10	6.9	13.75	6.3	
	(2198)	1349								P175/70R13 XA4				7.3	13.84	6.6	
										P175/70R13 CORBA				7.2	13.01	6.8	
										P185/60R14 EABLE	28	28	10.30	8.0	11.00	7.3	
										185/60R14 HVV	28	28	11.08	8.0	11.65	7.3	
ENCORE 77 2-DOOR	2159	1282	2500	1.7L	FB					P185/60R13 V14H	30	30	13.83	6.7	14.47	6.1	
	(2206)	1341								P175/70R13 XA4				7.2	14.49	6.8	
										P175/70R13 CORBA				6.9	13.83	6.3	
										P185/60R14 EABLE	28	28	11.41	7.8	11.98	7.1	
										185/60R14 HVV	28	28	11.67	7.8	12.26	7.1	
	2178	1306	2500	1.7L	AS					P185/60R13 V14H	30	30	13.10	6.9	13.75	6.3	
	(2231)	1366								P175/70R13 XA4				7.3	13.84	6.6	
										P175/70R13 CORBA				7.2	13.01	6.8	
										P185/60R14 EABLE	28	28	10.30	8.0	11.00	7.3	
										185/60R14 HVV	28	28	11.08	8.0	11.65	7.3	