State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-17-89
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 light-duty trucks:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
GAM173T2F4C4	173	(2.8)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0-3999	0.39	9.0	1.0

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

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3999	0.25	7.2	0.8

BE IT FURTHER RESOLVED: That the listed models in the 0-3999 equivalent inertia 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 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 for the listed vehicles in the 0-3999 equivalent inertia weight class, 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-17-89

Engine Family GAM 173 T2 F4 C4

Evaporative Family GT-173E-4S

Engine CID (Liters) 173 (2.8)

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:

- 75 = Wagoneer 4WD
- 77 = Cherokee 2-Dr 4WD
- 78 = Cherokee 4-Dr 4WD
- 73 = Cherokee 2-Dr 2WD
- 74 = Cherokee 4-Dr 2WD
- 65 = Comanche Pickup 4WD
- 66 = Comanche Pickup 2WD

DRIVE SYSTEM: Front

ENGINE/ 2WD = Rear & 4-WHEEL DRIVE

E.O. #A-17-89

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars___ Light-Duty Trucks X Medium-Duty Vehicles___ Gas X Diesel___

Manufacturer American Motors Corporation Page 2.1

Engine Family GAM 173 T2 F4 C4 Engine Code_____

ECS (Special Features) CL + EGR + AIP + TWC (None) CID (Liter) Type 173(2.8)V6

Engine Code	Vehicle Models (If Coded See Attachment)(Hp)	Trans	Equiv. Test Weight	Ignition System ESAC Part No.	Fuel System CL 2V Part No.	EGR Valve Part No.	Label Ident. Part No.
1A3	73, 74	A3-L	3375	8953002665 (16036481)	8953002231 (17085388)	8953002105 (17082733)	8953003564
	77, 66		3500				
	75, 78		3625				
	65		3750				
1A4	73		3250				
	74		3375				
	75, 77, 78, 66		3500				
	65		3625				
1M3	73, 74	M5	3375	8953002775 (16036471)	8953004303 (17086081)	8953001636 (17082734)	8953003563
	77, 66		3500				
	75, 78		3625				
	65		3750				
1M4	73		3250				

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.)

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

Date of Issue:

E.O. #A - 17-89

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars___ Light-Duty Trucks X Medium-Duty Vehicles___ Gas X Diesel___

Manufacturer American Motors Corporation Page 2.2

Engine Family GAM 173 T2 F4 C4 Engine Code_____

ECS (Special Features) CL + EGR + AIP + TWC (None) CID (Liter) Type 173(2.8)V6

Engine Code	Vehicle Models (If Coded See Attachment)(Hp)	Trans	Equiv. Test Weight	Ignition System ESAC Part No.	Fuel System CL 2V Part No.	EGR Valve Part No.	Label Ident. Part No.
1M4	74	M5	3375	8953002775 (16036471)	8953004303 (17086081)	8953001636 (17082734)	8953003563
	75, 77, 78, 66		3500				
	65		3625				

Comments:_____

_____.

(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:

042685 5356G/3

Engine Family: GAM 173 T2 F4 C4

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

APRIL 17, 1985

VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	2-BX66	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
XJ MODEL 66 PICKUP 2WD	3189	1463	3500		2.8L	MS					\1 P195/75R15 XA4	33	33	12.53	13.3	13.39	12.1
	[(3248)]	1462									\2 P195/75R15 VECTOR	33	33	11.89	13.4	12.68	12.2
											\3 P205/75R15 VECTOR	30	30	11.86	13.6	12.31	12.4
											\4 P205/75R15 XA4			12.25	13.5	13.11	12.3
											\5 P215/75R15 WRAN'R			11.36	14.0	12.12	12.7
											\6 P215/75R15 XMS1			11.84	13.6	11.73	12.4
											\7 P225/75R15 WRAN'R			11.17	14.1	12.07	12.8
											\8 P225/75R15 XMS1			11.80	13.9	11.78	12.6
											\						
	3190	1466	3500		2.8L	A3-L					\1 P195/75R15 XA4	33	33	11.41	13.5	12.15	12.3
	[(3257)]	1466									\2 P195/75R15 VECTOR	33	33	11.31	13.6	12.04	12.4
											\3 P205/75R15 VECTOR	30	30	11.12	13.8	11.88	12.5
											\4 P205/75R15 XA4			11.48	13.6	12.26	12.4
											\5 P215/75R15 WRAN'R			10.59	14.1	11.21	12.8
											\6 P215/75R15 XMS1			10.37	13.8	11.06	12.5
											\7 P225/75R15 WRAN'R			10.71	14.2	11.46	12.9
											\8 P225/75R15 XMS1			10.48	14.0	11.19	12.7
											\						
XJ MODEL 65 PICKUP 4WD	3356	1486	3625		2.8L	MS					\1 P195/75R15 XA4	33	33			13.13	12.7
											\2 P195/75R15 VECTOR	33	33			12.47	12.8
											\3 P205/75R15 VECTOR	30	30			12.25	12.8
											\4 P205/75R15 XA4					13.09	12.7
											\5 P215/75R15 WRAN'R					11.65	13.1
											\6 P215/75R15 XMS1					11.38	12.8
											\7 P225/75R15 WRAN'R					11.68	13.2
											\8 P225/75R15 XMS1					11.38	13.0
											\						
	[(3415)]	1485	3750		2.8L	MS					\1 P195/75R15 XA4	33	33	12.58	14.1		
											\2 P195/75R15 VECTOR	33	33	12.02	14.2		
											\3 P205/75R15 VECTOR	30	30	11.88	14.2		
											\4 P205/75R15 XA4			12.32	14.1		
											\5 P215/75R15 WRAN'R			11.32	14.5		
											\6 P215/75R15 XMS1			10.92	14.2		
											\7 P225/75R15 WRAN'R			11.21	14.6		
											\8 P225/75R15 XMS1			10.61	14.4		
											\						
	3365	1498	3625		2.8L	A3-L					\1 P195/75R15 XA4	33	33			12.88	12.9
											\2 P195/75R15 VECTOR	33	33			11.78	13.0
											\3 P205/75R15 VECTOR	30	30			11.86	13.1
											\4 P205/75R15 XA4					11.94	13.1
											\5 P215/75R15 WRAN'R					11.54	13.2
											\6 P215/75R15 XMS1					11.14	12.9
											\7 P225/75R15 WRAN'R					11.62	13.3
											\8 P225/75R15 XMS1					11.24	13.1
											\						
	[(3425)]	1489	3750		2.8L	A3-L					\1 P195/75R15 XA4	33	33	11.62	14.3		
											\2 P195/75R15 VECTOR	33	33	11.34	14.4		
											\3 P205/75R15 VECTOR	30	30	11.51	14.4		
											\4 P205/75R15 XA4			11.52	14.3		
											\5 P215/75R15 WRAN'R			11.33	14.6		
											\6 P215/75R15 XMS1			10.82	14.3		
											\7 P225/75R15 WRAN'R			11.23	14.6		
											\8 P225/75R15 XMS1			10.88	14.5		
											\						

Engine Family: GAM 173 T2 F4 C4

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

APRIL 17, 1985

VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	2-BBL173 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
XJ MODEL 73 2-DOOR 2WD	2991	1399	3250	2.8L	MS					\1 P195/75R15 XA4	33	33			13.41	11.3
										\2 P195/75R15 VECTOR	33	33			12.90	11.4
										\3 P205/75R15 VECTOR	30	30			12.22	11.7
										\4 P205/75R15 XA4					13.03	11.6
										\5 P215/75R15 WRAN'R					11.28	12.4
										\6 P215/75R15 XMS1					11.24	12.0
										\						
	[3086]	1397	3375	2.8L	MS					\1 P195/75R15 XA4	33	33	12.81	12.6		
										\2 P195/75R15 VECTOR	33	33	12.37	12.0		
										\3 P205/75R15 VECTOR	30	30	11.86	13.1		
										\4 P205/75R15 XA4			12.35	13.0		
										\5 P215/75R15 WRAN'R			11.34	13.6		
										\6 P215/75R15 XMS1			11.07	13.2		
										\						
	2999	1403	3250	2.8L	A3-L					\1 P195/75R15 XA4	33	33			12.21	11.0
										\2 P195/75R15 VECTOR	33	33			11.72	11.9
										\3 P205/75R15 VECTOR	30	30			11.01	11.9
										\4 P205/75R15 XA4					12.21	11.0
										\5 P215/75R15 WRAN'R					11.09	12.4
										\6 P215/75R15 XMS1					10.81	12.0
										\						
	[3063]	1401	3375	2.8L	A3-L					\1 P195/75R15 XA4	33	33	11.86	13.1		
										\2 P195/75R15 VECTOR	33	33	11.52	13.1		
										\3 P205/75R15 VECTOR	30	30	11.20	13.2		
										\4 P205/75R15 XA4			11.87	13.1		
										\5 P215/75R15 WRAN'R			10.74	13.0		
										\6 P215/75R15 XMS1			10.56	13.3		
										\						
XJ MODEL 74 4-DOOR 2WD	3042	1431	3375	2.8L	MS					\1 P195/75R15 XA4	33	33	12.81	12.6	13.70	11.5
	[3187]	1428								\2 P195/75R15 VECTOR	33	33	12.37	12.0	13.25	11.6
										\3 P205/75R15 VECTOR	30	30	11.86	13.1	12.70	11.9
										\4 P205/75R15 XA4			12.35	13.0	13.40	11.0
										\5 P215/75R15 WRAN'R			11.34	13.6	12.15	12.4
										\6 P215/75R15 XMS1			11.07	13.2	11.82	12.0
										\						
	3008	1435	3375	2.8L	A3-L					\1 P195/75R15 XA4	33	33	11.86	13.1	12.73	11.9
	[3114]	1432								\2 P195/75R15 VECTOR	33	33	11.52	13.1	12.34	11.9
										\3 P205/75R15 VECTOR	30	30	11.20	13.2	12.04	12.0
										\4 P205/75R15 XA4			11.87	13.1	12.72	11.9
										\5 P215/75R15 WRAN'R			10.74	13.0	11.56	12.5
										\6 P215/75R15 XMS1			10.56	13.3	11.24	12.1
										\						

Engine Family: GAM 173 T2 F4 C4

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

APRIL 17, 1986

VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	2-BITS	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
XJ MODEL 75 4-DOOR 4WD	3222	1461	3588		2.8L	MB					\1 P205/75R15 XA4 \2 P205/75R15 VECTOR	30	30			13.86 12.39	12.4 12.5
	[(3287)]	1458	3625		2.8L	MB					\1 P205/75R15 XA4 \2 P205/75R15 VECTOR	30	30	12.56 11.84	13.4 13.8		
	3233	1466	3588		2.8L	A3-L					\1 P205/75R15 XA4 \2 P205/75R15 VECTOR	30	30			12.61 12.04	12.5 12.5
	[(3297)]	1463	3625		2.8L	A3-L					\1 P205/75R15 XA4 \2 P205/75R15 VECTOR	30	30	12.85 11.62	13.9 14.8		

Engine Family: GAM 173 T2 F4 C4

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

APRIL 17, 1985

VEHICLE	TOTAL WT.	AXLE WT.	TEST WT.	2-DX7778 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
XJ MODEL 77 2-DOOR 4WD	3157	1425	3580	2.8L	M5					\1 P195/75R15 XA4	33	33	12.47	13.4	13.42	12.2
	[(3222)]	1423								\2 P195/75R15 VECTOR	33	33	11.78	13.5	12.63	12.3
										\3 P205/75R15 VECTOR	30	30	11.47	13.8	12.39	12.5
										\4 P205/75R15 XA4			12.14	13.6	13.06	12.4
										\5 P215/75R15 WRAN'R			11.82	14.1	11.88	12.8
										\6 P215/75R15 XM81			10.62	13.8	11.48	12.5
										\7 P225/75R15 WRAN'R			10.91	14.1	11.76	12.8
										\8 P225/75R15 XM81			10.78	13.9	11.58	12.6
										\						
	3168	1438	3580	2.8L	A3-L					\1 P195/75R15 XA4	33	33	11.68	13.8	12.63	12.5
	[(3232)]	1428								\2 P195/75R15 VECTOR	33	33	11.38	13.8	12.29	12.5
										\3 P205/75R15 VECTOR	30	30	11.28	13.8	12.04	12.5
										\4 P205/75R15 XA4			11.67	13.8	12.61	12.5
										\5 P215/75R15 WRAN'R			10.71	14.3	11.56	13.0
										\6 P215/75R15 XM81			10.48	14.0	11.24	12.7
										\7 P225/75R15 WRAN'R			10.76	14.3	11.63	13.0
										\8 P225/75R15 XM81			10.51	14.1	11.38	12.8
										\						
XJ MODEL 78 4-DOOR 4WD	3288	1457	3580	2.8L	M5					\1 P195/75R15 XA4	33	33			13.42	12.2
										\2 P195/75R15 VECTOR	33	33			12.65	12.3
										\3 P205/75R15 VECTOR	30	30			12.39	12.5
										\4 P205/75R15 XA4					13.06	12.4
										\5 P215/75R15 WRAN'R					12.08	12.8
										\6 P215/75R15 XM81					11.48	12.5
										\7 P225/75R15 WRAN'R					11.76	12.8
										\8 P225/75R15 XM81					11.38	12.6
										\						
	[(3273)]	1484	3625	2.8L	M5					\1 P195/75R15 XA4	33	33	12.89	13.5		
										\2 P195/75R15 VECTOR	33	33	12.18	13.6		
										\3 P205/75R15 VECTOR	30	30	11.84	13.8		
										\4 P205/75R15 XA4			12.56	13.6		
										\5 P215/75R15 WRAN'R			11.42	14.2		
										\6 P215/75R15 XM81			10.97	13.9		
										\7 P225/75R15 WRAN'R			11.25	14.2		
										\8 P225/75R15 XM81			11.00	14.0		
										\						
	3219	1462	3580	2.8L	A3-L					\1 P195/75R15 XA4	33	33			12.63	12.5
										\2 P195/75R15 VECTOR	33	33			12.29	12.5
										\3 P205/75R15 VECTOR	30	30			12.04	12.5
										\4 P205/75R15 XA4					12.61	12.5
										\5 P215/75R15 WRAN'R					11.56	13.0
										\6 P215/75R15 XM81					11.24	12.7
										\7 P225/75R15 WRAN'R					11.63	13.0
										\8 P225/75R15 XM81					11.38	12.8
										\						
	[(3283)]	1459	3625	2.8L	A3-L					\1 P195/75R15 XA4	33	33	12.04	13.8		
										\2 P195/75R15 VECTOR	33	33	11.88	13.9		
										\3 P205/75R15 VECTOR	30	30	11.62	14.0		
										\4 P205/75R15 XA4			12.85	13.9		
										\5 P215/75R15 WRAN'R			11.83	14.3		
										\6 P215/75R15 XM81			10.76	14.1		
										\7 P225/75R15 WRAN'R			10.91	14.3		
										\8 P225/75R15 XM81			12.75	14.2		
										\						