

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-17-76-1  
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 1984 model-year American Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
EAM2.8T2F4C9	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 certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles":

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0-3999	0.39	9.0	1.0

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

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0-3999	0.20	4.8	0.8

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of 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 Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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.

This Executive Order supersedes Executive Order A-17-76, dated August 30, 1983.

Executed at El Monte, California this 20 day of September, 1983.

  
K. D. Drachand, Chief  
Mobile Source Control Division

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer American Motors Corporation Executive Order No. A-17-76-1  
 Engine Family EAM 2.8 T2 F4 C9 Evaporative Family ET-2.8E-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  
 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  
 MFI - Mechanical Fuel Injection  
 TC - Turbocharged

## VEHICLE MODELS:

75 = Wagoneer 4WD  
 77 = Cherokee 2-Door 4WD  
 78 = Cherokee 4-Door 4WD

DRIVE SYSTEM: FRONT ENGINE/ FRONT AND REAR-WHEEL DRIVE

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer American Motors Corporation Page 2

Engine Family EAM 2.8 T2 F4 C9 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)	Trans	Equiv. Test Weight	Ignition System ESAC Part No.	Fuel System CL, 2V Part No.	EGR Valve Part No.	Label Ident. Part No.
1A1	75, 78	A3	3500	8933002019	8933001893	8933002105	8953001857
	77		3375		(ID #17084584)		
1A2	75	A3	3500				
	77, 78		3375				

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:



APPLICATION FOR CERTIFICATION

08.13.02.00-6

1984 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

(Use With Appendix on Page 08.13.02.00-7)

VEHICLE	TOTAL* WEIGHT	AXLE	TEST WEIGHT	#	ENG.	TRANS	FRONTAL AREA CALC. METHOD				COASTDOWN METHOD							
							BIAS TIRE		RADIAL TIRE		TIRE (1)		A/C T (SEC)	HP A/C	NON A/C T (SEC)	HP NON A/C		
							A/C	NON A/C	A/C	NON A/C	SIZE/MODEL	PR. (PSI)					FRT.	REAR
XJ MODEL 75 4-DOOR FAMILY	'3195' [(3251)]	1457 1455	3500 3500	+ 58 - 12	2.8L	N-5 FT					P205/75R15 ARRIVA XA-4			11.65 11.70	13.6 13.7	12.44 12.51	12.4 12.4	
											P215/75R15 WRANGLER XMS-1			11.88 10.99	14.4 13.2	12.82 11.66	13.1 12.0	
	'3190' [(3246)]	1462 1460	3500 3500	+ 53 - 17	2.8L	A-3 FT					P205/75R15 ARRIVA XA-4			11.00 10.77	13.8 13.8	11.80 11.51	12.5 12.5	
											P215/75R15 WRANGLER XMS-1			10.98 10.36	14.5 13.2	11.78 10.96	13.2 12.0	
XJ MODEL 77 2-DOOR SPORT	'3053' [(3110)]	1377 1375	3375 3375	+ 41 - 28	2.8L	N-5 PT N-5 PT					P195/75R15 VECTOR P205/75R15 ARRIVA XA-4			11.51 11.29 11.30	14.0 13.8 13.8	12.36 12.07 12.10	12.7 12.5 12.6	
	'3100'	1400	3375	- 38	2.8L	N-5 FT					P215/75R15 WRANGLER XMS-1			11.45 10.67	14.7 13.4	12.30 11.36	13.4 12.2	
	[(3157)]	1398	3500	+ 20	2.8L	N-5 FT					P195/75R15 VECTOR P205/75R15 ARRIVA XA-4			11.96 11.65 11.70	13.8 13.6 13.7	12.86 12.44 12.51	12.5 10.4 12.4	
												P215/75R15 WRANGLER XMS-1			11.88 10.99	14.4 13.2	12.82 11.66	13.1 12.2
	[3064] [(3121)]	1384 1382	3375 3375	+ 52 - 17	2.8L	A-3 PT A-3 FT					P195/75R15 VECTOR P205/75R15 ARRIVA XA-4			10.56 10.71 10.34	14.0 13.8 13.9	11.32 11.48 11.03	12.7 12.5 12.6	
	'3110'	1406	3375	- 28	2.8L	A-3 FT					P215/75R15 WRANGLER XMS-1			10.59 10.03	14.7 13.4	11.34 10.69	13.4 12.2	
	[(3167)]	1404	3500	+ 30	2.8L	A-3 FT					P195/75R15 VECTOR P205/75R15 ARRIVA XA-4			10.82 11.00 10.77	13.9 13.8 13.8	11.62 11.80 11.51	12.6 12.5 12.5	
											P215/75R15 WRANGLER XMS-1			10.98 10.36	14.5 13.2	11.78 10.96	13.2 12.0	
XJ MODEL 78 4-DOOR SPORT	'3120'	1413	3375	- 18	2.8L	N-5 PT					P195/75R15 VECTOR P205/75R15 ARRIVA XA-4			11.51 11.29 11.30	14.0 13.8 13.8	12.36 12.07 12.10	12.7 12.5 12.6	
	[(3177)]	1410	3500	+ 40	2.8L	N-5 PT					P215/75R15 WRANGLER XMS-1			11.45 10.67	14.7 13.4	12.30 11.36	13.4 12.2	
	'3166' [(3223)]	1435 1432		+ 29 - 40	2.8L	N-5 FT N-5 FT					P195/75R15 VECTOR P205/75R15 ARRIVA XA-4			11.96 11.65 11.70	13.8 13.6 13.7	12.86 12.44 12.51	12.5 12.4 12.4	
											P215/75R15 WRANGLER XMS-1			11.88 10.99	14.4 13.2	12.82 11.66	13.1 12.0	
	'3130'	1420	3375	- 8	2.8L	A-3 PT					P195/75R15 VECTOR P205/75R15 ARRIVA XA-4			10.56 10.71 10.34	14.0 13.8 13.9	11.32 11.48 11.03	12.7 12.5 12.6	
											P215/75R15 WRANGLER XMS-1			10.59 10.03	14.7 13.4	11.34 10.69	13.4 12.2	
	[(3187)]	1417	3500	+ 50	2.8L	A-3 PT					P195/75R15 VECTOR P205/75R15 ARRIVA XA-4			10.82 11.00 10.77	13.9 13.8 13.8	11.62 11.80 11.51	12.6 12.5 12.5	
	'3177' [(3234)]	1441 1438		+ 40 - 29	2.8L	A-3 FT A-3 FT					P215/75R15 WRANGLER XMS-1			10.98 10.36	14.5 13.2	11.78 10.96	13.2 12.0	