#### 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	Displace Cubic Inches		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 Tisted 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

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

- Vacuum Retard ٧R

### 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

V۷ - 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

Cherokee 4-Dr 4WD

Cherokee 2-Dr 2WD 73 =

74 Cherokee 4-Dr 2WD 65 = Comanche Pickup 4WD

66 = Comanche Pickup 2WD

ENGINE/ 2WD = Rear & 4-WHEEL DRIVE DRIVE SYSTEM: Front

#### 1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger CarsLight-Duty	Trucks <u>X</u> Medium-Duty V	dehicles Gas X Diesel
Manufacturer American Motor	s Corporation	Page 2.1
Engine Family GAM 173 T2 F4	C4	Engine Code
ECS (Special Features) CL + E	GR + AIP + TWC (None)	CID (Liter) Type 173(2.8)V6

  Engine    Code	Vehicle Models (If Coded See Attachment)(Hp)	Trans		Ignition System ESAC Part No.	Fuel System CL 2V Part No.	EGR Valve     Part No.	Label Ident. Part No.
l 1A3		     A3-L			8953002231	8953002105  (17082733)	
I IAJ	73, 74 77, 66	A3-L	3500	(10030481)	(17003300)	(17002733) 	
	75, 78		3625				
	65	<u> </u>	3750				
1A4	73	<u> </u>	3250				
	74		3375				
	75, 77, 78, 66	! 	3500				
	65		3625		0052004202	 	
1M3	73, 74	   M5	3375	8953002775 (16036471)		8953001636  (17082734)	
	77, 66	 	3500	`			<u> </u>
	75, 78		3625				
 	65	!   	3750		· · · · · · · · · · · · · · · · · · ·		
1M4	73	1 	3250		•	 	

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:

#### 1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars_	Light-Duty Trucks_X Medium-Duty Veh	icles Gas_X_ Diesel
Manufacturer	American Motors Corporation	Page 2.2
Engine Family	GAM 173 T2 F4 C4	Engine Code
ECS (Special Fe	eatures) <u>CL + EGR + AIP + TWC (None)</u> CIC	(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)		8953001636 (17082734)	
	75, 77, 78, 66	<u> </u>	3500				<u> </u>
	65		3625				
	,						
	**************************************						
							-
		1		•			<u> </u>

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-<u>17-89</u> Page 3

Engine Family: GAM 173 T2 F4 C4

### APRIL 17, 1985

				2-8146		FRONTAL							!	ROADLO	AD HP.	
				2-0400		I DIAG TIP	<b>E</b> 1	RADIAL	. TIME	II Standard tire liste II Optional tires elso	list	od .	i e	DAST DOM	N TIMES	
EHICLE	TOTAL MT.	MT.	TEST WT.	EH#	TRAN	1 1	<b>CD4</b> 1	A/C	A/C	II BIZE/MODEL	PRES FR		(sec)		1	H <sub>0</sub>
IJ ICCEL 66 PICKUP 280	E (3248) 3			12.6.	MS		# # # # # # #			1)  1\1 P195/75R15 XAA  1\2 P195/75R15 XECTOR  1\3 P285/75R15 VECTOR  1\4 P285/75R15 MEAN  1\5 P215/75R15 MEAN  1\6 P215/75R15 MEAN  1\7 P225/75R15 MEAN  1\6 P225/75R15 MEAN  1\	30 33 33	30	1 12.53   11.69   11.54   12.25   11.34   11.04   11.17	13.4   13.6   13.5   14.8   14.8	12.40   12.31   13.11   13.12   11.73   12.07	1 12, 1 12, 1 12, 1 12, 1 12,
 	3190 (3257)3		1 3586 1	2.0.	A3-L		[	<del></del> [		1\1 P195/75R15 XA4 1\2 P195/75R15 XA4 1\3 P195/75R15 VECTOR 1\3 P285/75R15 VECTOR 1\4 P285/75R15 MAAN-R 1\4 P215/75R15 MAAN-R 1\4 P215/75R15 MAAN-R 1\6 P225/75R15 MAAN-R 1\6 P225/75R15 MAAN-R 1\6 P225/75R15 MAAN-R	z z w	33	11.41 11.31 11.12 11.40 11.40 110.57 110.71 10.46	: 13.6 : 13.8 : 13.6 : 14.1 : 13.8 : 14.2	12.04   11.00   12.26   11.21   11.06	1 12. 1 12. 1 12. 1 12. 1 12.
XJ COEL AS I PICKUP 4HD			3425				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1\2 P195/75R15 VECTOR 1\3 P285/75R15 VECTOR 1\4 P285/75R15 XA4 1\5 P215/75R15 XM81 1\6 P215/75R15 XM81 1\7 P225/75R15 WANTR	33 30		i 	1 3 5 1 1	1 13.13 1 12.47 1 12.25 1 13.87 1 11.45 3 11.38 1 11.48 1 11.38	1 12. 1 12. 1 12. 1 13. 1 12. 1 13.
· ;	[ (3415) )	1465	3720	: 2, 16. ! ! ! ! ! !			1 1 1 1	 		112 PIVS/73013 VECTOR   113 P286/73013 VECTOR   114 P285/75013 IA4 115 P215/75013 IA4 114 P215/75013 IMB( 117 P225/75013 IMB( 117 P225/75013 IMB( 11	30 32	24)	12.55 12.82 11.80 1 12.32 11.32 11.32 16.92 11.31 16.41	14.2   14.3   14.1   14.5   14.2   14.6	1 	
*               			3429		A3-L		             	l   	:	1\2 P199/75RIS VECTOR   1\3 P285/75RIS VECTOR   1\4 P285/75RIS XA4   1\8 P215/75RIS WAM'R   1\4 P215/75RIS WAM'R   1\7 P225/75RIS WAM'R   1\8 P225/75RIS WAN	<b>30</b>	348			12.00 11.70 11.70 11.06 11.86 11.84 11.14 11.42	13.   13.   13.   13.   12.   13.
1 1 1 1	( (\$425) 3 i   	1487	3750	2-11.	A3-L		1 1 1 1 1	1 1 1 1 1		\\	33	33		14,4 14,4 14,3 14,6		8 6 8 8 1 1

E.O. #A-<u>17-89</u> Page <u>4</u>

Engine Family: GAM 173 T2 F4 C4

## APRIL 17, 1985

				2-8X73		1 2146	TIME	AAGIA	L TIME	         	TIMES SHOWN Standard tire lister Optional tires also	1101	44 • • • •	! ! C	ROADLO L DAETDOM	TIMES	
AEHI CLE	TOTAL UT.	AXLE UT.	TEST MT.	Đ	S TRAN	A/C	1620	A/C	A/C	1 6		PRES		1	- 1	ľ	1
13 10061 73 2-000A 260		1399	<b>3250</b>		PMS		 	           		\\3  \4  \4  \5	: P196/75R18 VECTOR     P286/75R15 VECTOR     P286/75R18 164     P215/75R18 MAM'R	33		i 	) 	13.41 12.70 12.22 13.63 11.20	.     .     .     .
\	E (3856) 3	1397	3378	: :2.1   :   :   :   :   :	L 1 H5	 	; ; ; ;	• • • • • • •		/3  /4  /3	PIPS/75ASS VECTOR ( P265/75ASS VECTOR (	38 22	1 33 1 39		1 12.6 : 1 13.1 : 1 13.8 : 1 13.4 :	<b>)</b> 	! ! ! ! ! ! !
	3999	1463	3250		L AS-L		[	1		1/3	P195/70R1S MA4 P195/70R1S VECTOR P205/70R1S VECTOR P205/70R1S MA4 P215/70R1S MAAN R P215/70R1S MAAN R	20 22 23	33	i i i	; ;	12.21 11.72 11.51 12.21 11.09	11.   11.   11.   12.
	£ (3863) 3	1491	\$378   	1 12.1 1 1 1 1 1 1 1 1	L AS-L	: ! ! !	; ; ; ; ;	; { { } { } { }		\3  \4  \4	: P195/78R1S VECTOR : P265/78R1S VECTOR : P265/78R1S 1A4 : P215/78R1S MMM'R : P215/78R1S MMM'R :	22	33		; 13.1   13.2   13.1   13.0   13.3		! ! ! !
	C (3197) )			2.1	L   H5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ;	1 1 1 1 1 1 1		\2  \3  \4  \5  \6	P195/78RIS VECTOR P265/78RIS VECTOR P265/78RIS XA4 P215/78RIS WMW'R P215/78RIS WMW'R	1 33 1 349 1 1	33	13.66 12.35 11.34 11.67	12.6 13.1 13.6 13.4 13.2	13.25 12.76 13.40 12.15 11.02	
	3856 [(3)14)3	1435	3375	1 12.4			       	! ! ! ! !		113	P195/75R15 XA4 P195/75R15 VECTOR P265/75R15 VECTOR P265/75R15 VECTOR P265/75R15 VECTOR P215/75R15 VECTOR P215/75R15 VECTOR	33	33 33 33	11.06 11.52 11.28 11.07	1 13.1 1 13.2 1 13.2 1 13.1	12.73 12.34 12.84 12.72	! 11. ! 11. ! 12. ! 12. ! 11.

E.O. #A-<u>17-89</u> Page <u>5</u> Engine Family: GAM 173 T2 F4 C4

1986 VEHICLE MEIGHTS AND ROADLOAD HORSEPOWER
APRIL 17, 1985

				2-6175			}				H	TIMES SHOWN Standard tire listed Optional tires also			ĺ	ROADLO!	-	
MEH I CPTE	TOTAL HT.	AXLE WT.	TEST WT.			TRAN	A/C	MON A/C		HQM A/C	ij	#12E/HGDEL I	PRESI	NAME APR	(sec)	AC Hp	(gac)	HD A
3J   HODEL 75   4-000R	<b>3222</b>	1461 : !	1 3500 1	! :	12. <b>6</b> .	1 PES	! !	<del> </del> 	! !	1		P285/75R15 XA4 P285/75R15 VECTOR (		30	   		13.66 12.39	
44¢	C( <b>320</b> 7)3	1450	3425	! ! !	12. <b>0</b> 1.	-	!	! !	!			L P385/75RL5 3A4 2 P385/75RL5 VECTOR	38		12.54 11.64		 	! 
,	2223	1444	3500	<u> </u>	2.2.	A3-L	 	   		 		P285/73R15 TA4 2 P285/73R15 VECTOR	38	30	<u></u>		1 12.61	
i   	£ (3297) 3	1443	3425	! ! !	2.8	A3-L		: : :				1 P205/79RIS XA4 2 P205/79RIS VECTOR			12.65 11.42		i !	
		<u> </u>	! !		i 	<u> </u>	ļ	! !	   	!	11		!	<u>!</u>	<u> </u>	!	! ! !	<u> </u>

E.O. #A-17-89 Page 6

Engine Family: GAM 173 T2 F4 C4

VEHICLE				2-917778		FRONTAL AREA HORSEPOWER			ll TIMES SHOWN Il Standard tire listed lut ll Optional tires also listed			1 MOADLOAD HP. 1 COASTDOWN TIMES			
	TOTAL MT.	AXLE HT.	TEBT NT,	Di\$	TRAN	i NDN	I A/C	HON A/C	ii Ii <b>s</b> tze/model i	PRESS FR I	LIRE	1		• • • • • • • • • • • • • • • • • • •	Ho
	1 3157     E(3222)   				1 H5				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	30 33 33	30 30	1 11.78 1 11.47 1 12.14 1 11.82 1 10.42 1 10.71 1 10.78	13.5     13.6     13.6     14.1     13.6	12.45 12.37 13.84 11.88 11.48	1 12.1 1 12.1 1 12.1 1 12.1 1 12.1
	1 C (3232) 3		3500	2.8.			1 1 1 1 1 1 1 1 1 1 1 1 1 1			20) 22 22	33 33 39	1 11.40 7 11.30 6 11.20 6 11.67 6 10.71 9 10.40 6 10.76 7 10.51	13.0     13.0     13.0     14.3     14.0	1 12.29 1 12.64 1 12.61 1 11.36 1 11.24	1 12. 1 12. 1 12. 1 13. 1 12. 1 13.
XJ HOOEL 78 4-DOON 4MD	t i	1457	3500	2.4.	H6						1       	 	\$ 1 6 1	13.42 12.45 12.45 12.39 13.66 12.88 11.40 11.76	1 12. 1 12. 1 12.
	(3273))	1454	3625	12.6	MS				INL P195/75RIS IA4 1\2 P195/75RIS VECTOR I 1\3 P285/75RIS VECTOR I 1\4 P285/75RIS IA4 1\5 P215/75RIS IMAN I 1\7 P225/75RIS IMAN I 1\7 P225/75RIS IMAN I 1\ P	33 33	33	12.87 12.10 11.04 12.56 11.42 11.42 11.25 11.25	; 13.6 ; 13.0 ; 13.6 ; 14.2 ; 13.9 ; 14.2	‡ 1 T I 1	 
	3217	1462	3844	2.00.	A3-L				INI P195/75RIS XA4 INS P195/75RIS VECTOR I INS P285/75RIS VECTOR I INS P285/75RIS XA4 INS P215/75RIS MANIR I INS P215/75RIS XM81 INS P225/75RIS XM81 INS P225/75RIS XM81	33	33	 			1 12. 1 12. 1 12. 1 13. 1 12. 1 13.
	C (3283) 3	1459   	3625   	2.84	A3-L	1			IN P195/75RIS XA4 IN2 P195/75RIS VECTOR I IN3 P295/75RIS VECTOR I IN4 P295/75RIS XA4 IN5 P219/75RIS XA4 IN5 P219/75RIS XA9 IN7 P225/75RIS XA9 INF P225/75RIS XA9 INF P225/75RIS XA9 INF P225/75RIS XA9	33	30	1 11.62	1 13.9 : 1 14.8 : 1 13.9 :		 