 E.O. Book

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-210
Relating to Certification of New Motor Vehicles

GENERAL 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 Order G-45-3, and G-45-4;

IT IS ORDERED AND RESOLVED: That 1982 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars.

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
C1G1.8V2NNAO	112	(1.8)	Air Injection-Pump Exhaust Gas Recirculation Three Way Catalyst System with Closed Loop

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the emission standards for this engine family to be listed on the window decal required by California Assembly-Line Test Procedures for 1982 model-year vehicles:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.39	7.0	0.7

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

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.17	3.2	0.7

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.

Executed and El Monte, California this 12th day of March 1981.

K. D. Drachand, Chief
Mobile Source Control Division

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corp. Executive Order No. A-6-210 Page 1

Engine Family C1G1.8V2NNA0 Evaporative Family 2B6-1A

Engine CID (Liters) 112 (1.8)

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

Special Features
CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
MFI-Mechanical Fuel Injection
TC-Turbocharged

Fuel System
CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

Division	Basic Body	Trim	Body Type	
1				CHEVROLET
	J	D	27	Cavalier Coupe
			35	Cavalier Station Wagon
			69	Cavalier Sedan
		E	77	Cavalier Hatchback Coupe
2				PONTIAC
	J	B	27	J2000 Coupe
			35	J2000 Station Wagon
			69	J2000 Sedan
			77	J2000 Hatchback Coupe
		C	27	J2000 LE Coupe
			69	J2000 LE Sedan
		D	77	J2000 SE Hatchback Coupe
		E	27	J2000 S Coupe
			35	J2000 D Wagon
			69	J2000 S Sedan
3				OLDSMOBILE
	J	C	69	Firenza
			77	Firenza S
		D	69	Firenza LX
			77	Firenza SX
4				BUICK
	J	S	27	Skyhawk Coupe
			69	Skyhawk Sedan
		T	27	Skyhawk Limited Coupe
			69	Skyhawk Limited Sedan
6				CADILLAC
	J	G	69	Cimarron Sedan

DRIVE SYSTEM: Front Wheel

Issued: 3/9/81. Olds & Buick models added by RC 21-176, on 112581. Pontiac E trim Models added by RC 21-364 on 031782.

012281

AIR RESOURCES BOARD 1982 SUPPLEMENTAL DATA SHEET - GM FORMAT
Gasoline-fueled Passenger Car

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-210

Engine Family C1G1.8V2NNAO Engine CID 112 Transm. _____

Exhaust Emission Control System AIP, EGR, TWC, CL

Eng. Code	Air Cond.	Electron. Control Module Part No. 160	Fuel System 2V Carburetor Part No. 1708	EGR Valve Part No. 1707	Equivalent Test Weight	Divisions	Basic Body	Trim	Body Type	Trans-mission	Tune-up Label Code	Rev. Notes
1B	W	18061	1600, 2300	5728	2750	2	J	CE	27	A-3	AZB, CJB	AN
1C,D						2	J	B	69			D
1E												E
1F		23741			2875	1	J		27			FK
1G,H		20361				2	J	B	27			FKM
						1	J		69			
						2	J	CE	69			N
						1 2	J		77			
2B,	WO	18121			2750	1 2	J		27			A
2C,D						1 2	J		69			D
2E						2	J		77			E
2F		23751										F
2G,H		20371			2875	1	J		77			FJM
3A,	W	18161	1601, 2301	5764	2750	1 2 4	J		27	M-4		BL
3B,C						2	J	BE	69			DN
3D		23761				2	J	D	77			G
3E,F		20381										GM
					2875	1 3 4	J		69			LK
						2	J	C	69			K
						1 3	J		77			K
						2	J	B	77			K
					2625	2	J	E	27			N
4A	WO	18201			2750	1 4	J		27			BH
4B,C						1 2 3 4	J		69			DL
4D		23771				1 2 3	J		77			GL
4E,F		20391				2	J	BC	27			GM

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model, equipment and frontal area.

Date of Issue: 030981. Revisions: A, B, C. EC 1B, 2B, 3A, 4A included in original certification, per RC 21-06, 21-02, 21-03, on 030981. D. EC 1C, 1D, 2C, 2D, 3B, 3C, 4B, 4C, added by RC 21-11, on 042381. E. EC 1E, 2E added by RC 21-46, on 6-29-81. F. EC 1F, G, 2F, G added by RC 21-17, on 071781. G. EC 3D, E, 4D, E added by RC & FF 21-89 (C), on 080581. H. 12J27 models were 2625 before RC 21-146, approved on 100981. J. 1J77 was 2750 before RC 21-209, approved 102381. K. Test Wts. revised by letter 2P1107; L. Olds, Buick models added by RC 21-176; Page retyped, respaced 112581. M. EC 1H, 2H, 3F, 4F added by RC 21-337 on 031782. N. 2JE27, 69 models added by RC 21-364 on 031782.

AIR RESOURCES BOARD 1982 SUPPLEMENTAL DATA SHEET - GM FORMAT
Gasoline-fueled Passenger Car

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-210

Engine Family C1G1.8V2NNAO Engine CID 112 Transm. _____

Exhaust Emission Control System AIP, EGR, TWC, CL

Eng. Code	Air Cond.	Electron. Control Module Part No. 160	Fuel System 2V Carburetor Part No. 1708	EGR Valve Part No. 1707	Equivalent Test Weight	Divisions	Basic Body	Trim	Body Type	Trans-mission	Tune-up Label Code	Rev. Notes
5A	W	18241	1600,	5733	2875	1 2	J		35	A-3	AZB,	A
5B,C			2300			6	J		69		CJB	B
5D												C
5E		23781										D
5F,G		20501										DF
6,A	WO	18171				1 2	J		35			B
6B												C
6C		23791										D
6D,E		20511										DF
7,A	W	18211	1601	5764		1 2	J		35	M-4		B
7B		28301				6	J		69			E
7C,D		20521				2	J		77			EF
8,A	WO	18251				1 2	J		35			B
8B		23811										E
8C,D		20531										EF
11,A		18071	1701,	5728	2750	1 2	J		27	A-3		B
11B			2307	5733		1 2	J		69			C
						1 2	J		77			

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model, equipment and frontal area.

Date of Issue: 030981. Revisions: EC 5A, 11 included in original certification per RC 21-03 & 07. B. EC 5B, C, 6A, 7A, 8A, 11A added by RC 21-11, on 042381. C. EC 5D, 6B, 11B added by RC 21-46 & 47, on 062981. D. EC 5E, F, 6C, D added by RC 21-17, on 071781. E. EC 7B, C, 8B, C added by RC/FF 21-89(C), on 080581. Page retyped, respaced 112581. F. EC 5G, 6E, 7D, 8D added by RC 21-337 on 031782.

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Form 2

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-210 Page 4

Engine Family C1G1.8V2NNA0 Exhaust Emission Control System AIP, EGR, TW, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
112	12,A	W/WO	16011711	17081600	17075728	2750	2	J	CE	27	A-3	AZB,	ABM
	12B			17082300	17075733		12	J		69		CJB	D
	12C		16023831				2	J		77			E
	12D,E		16020571										EL
						2875	1	J		27			H
							2	J	B	27			H
							1	J		77			G
	13,A		16018131		17075728	2750	4	J	S	27			AB
	13B				17075733								D
	13C		16023841			2875	4	J	T	27			E
	13D,E		16020581				12	J		35			EL
							12346	J		69			K
							123	J		77			K
	14	W	16020861	17081609	17075728	2875	6	J		69			C
	14A		16023851	17082305									F
	14B,C		16021631										FL
	15		16020921	17081606	17075728	2750	4	J	S	27			NC
	15A			17082304	17075733								DN
	15B		16023861			2875	4	J	T	27			EN
	15C,D		16021641				346	J		69			EL
	15E		16028881				3	J		77			O

Comments: See page one for abbreviations and evaporative emission family identification Please refer to manufacturer's HP lists for correct dyno test HP settings based on model, equipment and frontal area.

ISSUED: 112581

REVISIONS: A. EC 12, 13 included in original certification per RC 21-07 on 030981. B. EC 12A, 13A added by RC 21-11. C. EC 14, 15 added by RC 21-14 on 042381. D. EC 12B, 13B, 15A added by RC 21-47 on 062981. E. EC 12C, D, 13C, D, 15B, C added by RC 21-17 on 071781. F. EC 14A, B added by RC/FF 21-89(C) on 080581. G. 1J77 was 2750 before RC 21-209, approved 102381. H. Test Wts. revised by letter 2P1107. K. Olds, Buick models added by RC 21-176, page 4 added 112581. L. EC 12E, 13E, 14C, 15D added by RC 21-337 on 031782. M. Model 2JE27 added by RC 21-364 on 031782. N. Buick, Olds models added by RC 21-394 on 031782. O. EC 15E added by RC 21-402 on 040682.

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1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-210 Page 5

Engine Family C1G1.8V2NNAO Exhaust Emission Control System AIP, EGR, TW, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
112	36,A	W/WO	16026231	17081601	17075764	2750	12 4	J		27	M-4	AZB,	CD
							2	J	BE	69		CJB	
						2875	12	J		35			
							1234	J		69			
							123	J		77			
							2	J	C	69			E
	37,A	W	16026241	17081609		2875	6	J		69			D
	42A	W/WO	16028871	17081600	17075728	2750	2	J	CE	27			G
				17082300			4	J	S	27			
						2875	1	J		27			
							2	J	B	27			
							4	J	T	27			
							1234	J		69			
							123	J		77			
	43A				17075733	2750	2	J	CE	27			
							4	J	S	27			
						2875	1	J		27			
							2	J	B	27			
							4	J	T	27			
							12	J		35			
							1234	J		69			
							1234	J		77			
	45,A		16024821	17081606	17075733	2750	2	J	CE	27	A-3		DEF
	45B		16028891	17082304			4	J	S	27			AG
						2875	1	J		27			E
							2	J	B	27			E
							4	J	T	27			
							12	J		35			EF
							12346	J		69			BE
							123	J		77			BE

Comments: See page one for abbreviations and evaporative emission family identification Please refer to manufacturer's HP lists for correct dyno test HP settings based on model, equipment and frontal area.

ISSUED: 112581 REVISIONS: A. EC 45 added by RC 2-162. B. Olds, Buick models added by RC 21-176. C. EC 36, 37 added by RC 21-240, page 5 added 112581. D. EC 36A, 37A, 45A added by RC 21-337 on 031782. E. Omitted models added on 031782. F. Models 2JE27, 69, 35 added by RC 21-364 on 031782. G. EC 42A, 43A, 45B added by RC 21-042 on 040682.