

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.

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
C1G1.8V2NNAO	112 (1.8)	Air Injection-Pump Exhaust Gas Recirculation Thrice 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:

<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>
0.17	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.

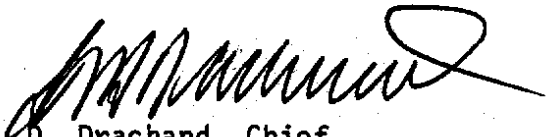
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

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		DIVISION	BASIC BODY	TRIM	BODY TYPE		
1	J	D	27	CHEVROLET	3	J	C	69	OLDSMOBILE	
			35	Cavalier Coupe				77	Firenza	
			69	Cavalier Station Wagon				69	Firenza S	
			77	Cavalier Sedan				77	Firenza LX	
	E		77	Cavalier Hatchback Coupe				77	Firenza SX	
2	J	B	27	PONTIAC	4	J	S	27	BUICK	
			35	J2000 Coupe				69	Skyhawk Coupe	
			69	J2000 Station Wagon				69	Skyhawk Sedan	
			77	J2000 Sedan				27	Skyhawk Limited Coupe	
				C					27	Skyhawk Limited Sedan
			69	J2000 LE Coupe						
			69	J2000 LE Sedan						
			77	J2000 SE Hatchback Coupe						
E	D	27	J2000 S Coupe	6	J	G	69	CADILLAC		
		35	J2000 D Wagon					Cimarron Sedan		
		69	J2000 S 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.

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

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 5B,C 5D 5E 5F,G	W	18241 23781 20501	1600, 2300	5733	2875	1 2 6	J J		35 69	A-3	AZB, CJB	A B C D DF
6A 6B 6C 6D,E	WO	18171 23791 20511				1 2	J		35			B C D DF
7A 7B 7C,D	W	18211 28301 20521	1601	5764		1 2 2	J J J		35 69 77	M-4		B E EF
8A 8B 8C,D	WO	18251 23811 20531				1 2	J		35			B E EF
11A 11B		18071	1701, 2307	5728 5733	2750	1 2 1 2 1 2	J J J		27 69 77	A-3		B C

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.

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 C1G1.8V2NNAO 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	T	BT	TNS	TLC	REV. NOTES							
112	12, A	W/WO	16011711	17081600	17075728	2750	2	J	CE	27	A-3	AZB, CJB	ABM							
	12B				17082300									17075733	12	J	69	D		
	12C				1602383I									2	J	77	E			
	12D, E				1602057I									2875	1	J	27	EL		
															2	J	B	27	H	
															1	J		77	H	
																			G	
13, A	13B	13C	13D, E	1601813I	17075728	2750	4	J	S	27			AB							
					17075733															
14	14A	14B, C	1602086I	17081609	17075728	2875	6	J		69			NC							
														1602385I	17082305					
														1602163I						
15	15A	15B	15C, D	15E	1602092I	17081606	2750	4	J	S	27		DN							
						17082304								17075733						
					1602386I										2875	4	J	T	27	EN
					1602164I											346	J		69	EL
					1602888I											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.

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	T	M	BT	TNS	TLC	REV. NOTES
112	36,A	W/WO	16026231	17081601	17075764	2750	12 4	J			27	M-4	AZB, CJB	CD
							2	J	BE		69			
						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 17082300	17075728	2750	2	J	CE		27			G
							4	J	S		27			
						2875	1	J			27			
							2	J	B		27			
							4	J	T		27			
							12	J			35			
							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			E
							4	J	T		27			E
							12	J			35			EF
							1234	J			69			BE
							123	J			77			BE
	45,A 45B		16024821 16028891	17081606 17082304	17075733	2750	2	J	CE		27	A-3		DEF AG
							4	J	S		27			
						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.