

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-334
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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1986 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>
G1G2.0W5XAG7	121 (2.0)	Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Central Fuel Injection)

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

The following are the emission standards for this engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0.39	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>
0.26	2.4	0.14

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 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.).

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 17th day of June, 1985.



K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-034 ³³⁴ Page 1

Engine Family G1G2.0W5XAG7 Evaporative Family 680-1H

Engine CID (Liters) - Type 121 (2.0)

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

Headings

- AIR COND-Air Conditioning
- BB-Basic Body
- BT-Body Type
- DI-Diesel Injection
- DIN-Diesel Injector Nozzles
- DIV-Division
- ECM-Electronic Control Module
- ETW-Equivalent Test Weight
- TLC-Tune-Up Label Code
- TNS-Transmission
- TM-Trim

Fuel System

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

Special Features

- CCV-Combustion Chamber Valve
- CFI-Central Fuel Injection
- DID-Diesel Injection-Direct
- DIP-Diesel Injection-Prechamber
- MFI-Mechanical Fuel Injection
- TC-Turbocharged
- TBI-Throttle Body Injection
- EFI-Electronic Fuel Injection

<u>DIV</u>	<u>BB</u>	<u>TM</u>	<u>BT</u>	<u>MODEL NAME</u>	<u>DIV</u>	<u>BB</u>	<u>TM</u>	<u>BT</u>	<u>MODEL NAME</u>
1				CHEVROLET	3				OLDSMOBILE
	J	C	27	Cavalier Notchback Coupe		J	C	27	Firenza Coupe
			35	Cavalier Station Wagon				35	Firenza Cruiser
			69	Cavalier Notchback Sedan				69	Firenza Sedan
		D	35	Cavalier CS Station Wagon				77	Firenza S Hatchback
			69	Cavalier Notchback CS Sedan			D	27	Firenza LC Coupe
			77	Cavalier Hatchback CS Coupe				69	Firenza LX Sedan
	E		27	Cavalier Eurosport Notchback Coupe				77	Firenza GT Hatchback
			35	Cavalier Eurosport Station Wagon					
			67	Cavalier Convertible Coupe					
			69	Cavalier Eurosport Notchback Sedan					
			77	Cavalier Eurosport Hatchback Coupe					

DRIVE AXLE: Front Wheel Drive

ISSUED:

REVISIONS:

0126N

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Manufacturer General Motors Corporation Executive Order No. A-6-034 ³³⁴ Page 2

Engine Family G1G2.0W5XAG7 Evaporative Family 6B0-1H

Engine CID (Liters) - Type 121 (2.0)

<u>DIV</u>	<u>BB</u>	<u>TM</u>	<u>BT</u>	<u>MODEL NAME</u>	<u>DIV</u>	<u>BB</u>	<u>TM</u>	<u>BT</u>	<u>MODEL NAME</u>
2				PONTIAC					
	J	B	35	Sunbird Wagon					
			69	Sunbird Sedan					
		D	27	Sunbird SE Coupe					
			77	Sunbird SE Hatchback Coupe					
4				BUICK					
	J	S	27	Skyhawk Custom Coupe					
			35	Skyhawk Custom Wagon					
			69	Skyhawk Custom Sedan					
			77	Skyhawk Sport Hatchback					
		T	27	Skyhawk Limited Coupe					
			35	Skyhawk Limited Wagon					
			69	Skyhawk Limited Sedan					
6				CADILLAC					
	J	G	69	Cimarron Sedan					

DRIVE AXLE: Front Wheel Drive

ISSUED:

0126N

REVISIONS:

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-334 Page 3

Engine Family G1G2.0W5XAG7 Exhaust Emission Control System EGR, TWC, CL (CFI)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	TBI ASM PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
121	21,21A	W	16036901	17085083	17085718	2750	1 34	J		27	M-4	YBD	A
							2	J	D	27			
							1	J	CD	35			
							1234	J		69			
							12 4	J		77			
							3	J	C	77			
						2875	1	J	E	35			
							234	J		35			
							1	J		67			
							3	J	D	77			
						2625	12	J		27			A
							3	J	C	27			
							4	J	S	27			
							2	J		69			
						2750	3	J	D	27			
							4	J	T	27			
							123	J		35			
							4	J	S	35			
							1 34	J		69			
							1234	J		77			
						2875	4	J	T	35			
							1	J		67			
						2750	1	J		27	M-5		A
							1	J	C	35			
							1	J		69			
							1	J		77			
						2875	1	J	DE	35			
							1	J		67			
							6	J		69			

22,22A W/O

23,23A W 16036911

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 and equipment.

ISSUED: 06-17-85

REVISIONS: A. Engine codes 21A, 22A and 23A added by RC
61-011 on 07-15-85.

0126N/14N

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-334 Page 4

Engine Family G1G2.0W5XAG7 Exhaust Emission Control System EGR, TWC, CL (CFI)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	TBI ASM PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
121	24,24A	W/O	16036911	17085083	17085718	2625	1	J	C	27	M-5	YBD	A
						2750	1	J	E	27			
							1	J		35			
							1	J		69			
							1	J		77			
						2875	1	J		67			
	31,31A	W	16054401	17085082		2750	1 34	J		27	A-3		A
							1	J	CD	69			
						2875	1 34	J		35			
							1	J	E	69			
							34	J		69			
							1 34	J		77			
						3000	1	J		67			
							6	J		69			
	32,32A	W/O				2750	1 34	J		27			A
							1	J	C	35			
							1 34	J		69			
							1 34	J		77			
						2875	1 34	J		35			
							1	J		67			

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 and equipment.

ISSUED: 06-17-85

REVISIONS: A. Engine codes 24A, 31A and 32A added by RC
61-011 on 07-15-85.

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