

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-240
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 1983 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>
D1G2.0W5XAJ9	121 (2.0)	Air Injection - Valve Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Central Fuel Injection)

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 1983 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>
0.10	3.3	0.6

BE IT FURTHER RESOLVED: That the listed vehicle 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.

Executed at El Monte, California this 30th day of July, 1982.


K. D. Drachand, Chief
Mobile Source Control Division

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-240 Page 1
 Engine Family D1G2.0W5XAJ9 Evaporative Family 3B0-1F
 Engine CID (Liters) 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, 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

<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 Coupe		J	C	35	Firenza Cruiser Wagon
			35	Cavalier Station Wagon				69	Firenza
			69	Cavalier Sedan				77	Firenza S
		D	27	Cavalier CS Coupe			D	35	Firenza LX Cruiser Wagon
			35	Cavalier CS Station Wagon				69	Firenza LX
			69	Cavalier CS Sedan				77	Firenza SX
		E	67	Cavalier CS Convertible Coupe					
			77	Cavalier CS Hatchback Coupe					
2				PONTIAC	4				BUICK
	J	B	27	2000 Coupe		J	E	27	Skyhawk T-Type Coupe
			35	2000 Wagon			S	27	Skyhawk Coupe
			69	2000 Sedan				35	Skyhawk Wagon
			77	2000 Hatchback Coupe				69	Skyhawk Sedan
		C	27	2000 LE Coupe			T	27	Skyhawk Limited Coupe
			35	2000 LE Wagon				35	Skyhawk Limited Wagon
			69	2000 LE Sedan				69	Skyhawk Limited Sedan
		D	77	2000 SE Hatchback Coupe					
					6				CADILLAC
						J	G	69	Cimarron Sedan

DRIVE AXLE: Front Wheel

ISSUED: 073082

REVISIONS: Model 4JE27 added per RC 31-107 on 092782. Model 1JE67 added by RC 31-125 on 101982.

0253U/47U

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-240 Page 2

Engine Family D1G2.0W5XAJ9 Exhaust Emission Control System AIV-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	61	W &	16027071	17083083	17083778	2750	12	J		27	M-4	DTK	
	61A	W/O					4	J	ST	27			C
	61B						12	J		69			A
	61C		16033991				1	J		77			B,E
							2	J	B	77			
						2875	4	J	E	27			C
							123	J		35			
							4	J	S	35			
							1	J		67			D
							34	J		69			
							2	J	D	77			
							3	J		77			
						3000	4	J		35			
						2750	1	J		27	M-5		
							4	J	S	27			
							1	J		69			
						2875	4	J	ET	27			C
							1 3	J		35			
							1	J		67			D
							346	J		69			E
							1 3	J		77			
						3000	4	J		35			

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: 073082 REVISIONS: A. EC 61A included in original certification, per RC 31-012, on 071982. B. EC 61B included in original certification, per RC 31-020, on 072082. C. Model 4JE27 added per RC 31-107 on 092782. D. Model 1JE67 added per RC 31-125 on 101982. E. EC 61C added and ETW of 6JG69 was decreased from 3000 to 2875 by RC 31-139 on 112382.

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-240 Page 3

Engine Family D1G2.0W5XAJ9 Exhaust Emission Control System AIV-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	61D	W & W/O	16033991	17083083	17083778	2750	12	J		27	M-4	DAW	
							4	J	ST	27			
							12	J		69			
							2	J	B	77			
						2875	4	J	E	27			
							123	J		35			
							4	J	S	35			
							1	J		67			
							34	J		69			
							1 3	J		77			A
							2	J	D	77			
						3000	4	J		35			
						2750	1	J		27	M-5		
							4	J	S	27			
							1	J		69			
						2875	4	J	ET	27			
							1 3	J		35			
							1	J		67			
							346	J		69			
							1 3	J		77			
						3000	4	J		35			

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: 112382 (RC 31-139)

REVISIONS: A. ETW of 1JE77 was increased from 2750 to
2875 on 012483.

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-240 Page 4

Engine Family D1G2.0W5XAJ9 Exhaust Emission Control System AIV-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	71	W &	16027101	17083082	17083771	2750	1	J		27	A-3	DTM	
	71A	WO											A
	71B					2875	4	J		27			B
	71C		16033971				1	J		35			E
							1	4	J	69			
							1	J		77			
						3000	1	J		67			D
							4	J		35			
	73		16027121			2875	3	J		69			A
	73A						3	J		77			B
	73B												E
	73C		16033981										
						3000	3	J		35			
							6	J		69			

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: 073082 REVISIONS: A. EC 71A and 73A included in original certification
per RC 31-012, on 071982. B. EC 71B and 73B included in original
certification, per RC 31-020, on 072082. Models 3JC35 and 3JD35
removed from 2875 ETW and added to 3000 ETW. C. Model 4JE27 added
per RC 31-107 on 092782. D. Model 1JE67 added per RC 31-125 on
101982. E. ECs 71C and 73C added by RC 31-139 on 112382.

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-240 Page 5

Engine Family D1G2.0W5XAJ9 Exhaust Emission Control System AIV-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	71D	W & WO	16033971	17083082	17083771	2750	1	J		27	A-3	DAU	
						2875		4	J	27			
							1		J	35			
							1	4	J	69			
							1		J	77			
						3000	1		J	67			
								4	J	35			
	73D		16033981			2875		3	J	69			
								3	J	77			
						3000		3	J	35			
								6	J	69			

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: 112382 (RC 31-139) REVISIONS:

0253U/47U