

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-246  
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>
D4G4.1W4AEA3	252 (4.1)	Air Injection - Pump Exhaust Gas Recirculation Three Way Catalyst 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 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>
0.33	3.3	0.7

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 21 day of July, 1982.

*K.D. Drachand by me*  
K. D. Drachand, Chief  
Mobile Source Control Division

## 1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-246 Page 1  
 Engine Family D4G4.1W4AEA3 Evaporative Family 3B4-4C  
 Engine CID (Liters) 252 (4.1)

## 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

DIV	BB	TM	BT	MODEL NAME	DIV	BB	TM	BT	MODEL NAME
3				OLDSMOBILE	4				BUICK
	C	X	37	Ninety Eight Regency Coupe		E	Y	57	Riviera "T-Type" Coupe
		W	69	Ninety Eight Regency Brougham Coupe			Z		Riviera "Luxury" Coupe
		X	69	Ninety Eight Regency Sedan		G	J	35	Regal Estate Wagon
	E	Z	57	Toronado Brougham Coupe			J	47	Regal Coupe
							M	47	Regal Limited Coupe
							J	69	Regal Sedan
4				BUICK			M	69	Regal Limited Sedan
	B	N	37	LeSabre Custom Coupe					CADILLAC
		P		LeSabre Limited Coupe		6			
		N	69	LeSabre Custom Sedan		C	B	47	Brougham Coupe
		P		LeSabre Limited Sedan			D	47	Coupe deVille
	C	W	37	Electra Park Avenue Coupe			B	69	Brougham Sedan
		X	37	Electra Limited Coupe			D	69	Sedan deVille
		W	69	Electra Park Avenue Sedan		E	L	57	Eldorado
		X	69	Electra Limited Sedan		K	S	69	Seville

DRIVE AXLE: *E, K - FRONT; B, C, G - REAR.*

ISSUED: 072182. 4EZ67 ADDED BY RC 34-028, ON 072782.

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

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Engine Family D4G4.1W4AEA3 Exhaust Emission Control System AIP-CL-EGR-TWC

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	4V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B	T	BT	TNS	TLC	REV. NOTES
252	1	B	16025234	17082246 17082266 17082295	17082714 17083832	4000	4	B		37 69	A-4	BGB	
							4250	346	C	37			
								6	C	47			
								346	C	69			
	2,2A	Y	16025544	17082247 17082267 17082298	17082723 17083834	4000	346	E		57		BGD	D
							4250	4	E	67			A
								6	K	69			
	3,4, 3A, 4A	B	16017114	17082248 17082268 17082299	17082720 17083831	3625	4	G		47 69	A-3	BGG	D
							3750	4	G	35			
								4	G	M	69		
	5	B	16025004 16017114	17083248	17083708 17083829	3625	4	G		47 69	A-4	BGG	C
							3750	4	G	M	69		
	6	B	16017164	17082245 17082265 17082294	17082722	4000	4	B		37 69	A-3		B

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: REVISIONS: A. Model added by RC 34-028. B. EC 6 added by RC 34-053. C. Corrected label code. D. EC 2A, 3A, 4A added by RC 34-212.