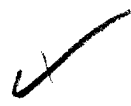


State of California  
AIR RESOURCES BOARD



EXECUTIVE ORDER A-6-247  
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 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>
D6G4.1W5AGA9	249 (4.1)	Air Injection - Pump Exhaust Gas Recirculation Three Way Catalyst System 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>
0.25	3.3	0.6

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 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 15 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-6-247 Page 1  
 Engine Family D6G4.1W5AGA9 Evaporative Family 3B0-6  
 Engine CID (Liters) 249 (4.1L)

## 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, EFI, MFI  
 nV-nVenturi Carburetor  
 VV-Variable Venturi  
 TBI-Throttle Body Injector

Special Features

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

<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>
6	C	B	47	Brougham Coupe					
		B	69	Brougham Sedan					
		D	47	Coupe deVille					
		D	69	Sedan deVille					
	E	L	57	Eldorado					
	K	S	69	Seville					

DRIVE AXLE: Front wheel drive for E and K basic body - Rear wheel drive for C basic body.

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

Manufacturer General Motors Corporation Executive Order No. A-6-247 Page 2

Engine Family D6G4.1W5AGA9 Exhaust Emission Control System AIP-EGR-TWC-CL (CFI)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	TBI PART NO.	EGR VALVE PART NO.	ETW	DIV	B	T	BT	TNS	TLC	REV. NOTES
249	3A,3B	W	16022816	17083032	17083765	4250	6	C		47	A-4	MAC	A
	3C		16033136				6	C		69			C
	3D			17084032	17083765 17084701								D,E
	3E		16036356										F
	4A,4B		16022846 16022876	17083031	17083765	4000	6	E		57			A,B
						4250	6	K		69			
	4C		16033166 16033196										C
	4D			17084031									D
	4E		16036386 16036416										F

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. EC 3B, 4B included in original certification per RC 36-15 on 062982. B. ECM P/N 16022876 added by RC 36-41 on 072782. C. EC 3C, 4C added by RC 36-083. D. EC 3D, 4D added by RC 36-163 on 122382. E. Corrected omission of P/N's 17083765 and 17084701 on 12-23-82 (RC 36-163). F. EC 3E, 4E added by RC 36-214 on 02-15-83.