

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-335
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>
G2G2.5V5TPG9	151 (2.5)	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>
0.41	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	2.3	0.2

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 31st 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-6-335 Page 1Engine Family G2G2.5V5TPG9 Evaporative Family 6A0-2A, 6B0-2AEngine CID (Liters) - Type 151 (2.5) - L4

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

DIV	BB	TM	BT	MODEL NAME	DIV	BB	TM	BT	MODEL NAME
1				CHEVROLET	2				PONTIAC
	A	W	19	Celebrity Sedan		A	F	19	6000 Sedan
			27	Celebrity Coupe				27	6000 Coupe
			35	Celebrity Station Wagon				35	6000 Wagon
	F	P	87	Camaro Sport Coupe			G	19	6000 LE Sedan
								27	6000 LE Coupe
								35	6000 LE Wagon
						F	S	87	Firebird
						N	E	27	Grand Am Coupe
								69	Grand Am Sedan
							V	27	Grand Am LE Coupe
								69	Grand Am LE Sedan
							W	27	Grand Am SE Coupe
								69	Grand Am SE Sedan
						P	E	37	Fiero Coupe
							F	37	Fiero SE Coupe
						M		37	Fiero Sport Coupe

DRIVE AXLE: Front Wheel Drive for A and N Basic Body
 Rear Wheel Drive for F and P Basic Body

ISSUED: 06-03-85

REVISIONS: Added models 2NW27 and 2NW69 by RC 62-099 on 09-17-85.

0121N/16N

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-335 Page 2Engine Family G2G2.5V5TPG9 Evaporative Family 6A0-2A, 6B0-2AEngine CID (Liters) - Type 151 (2.5) - L4

DIV	BB	TM	BT	MODEL NAME	DIV	BB	TM	BT	MODEL NAME
3				OLDSMOBILE					
	A	J	19	Cutlass Ciera LS Sedan					
			27	Cutlass Ciera LS Coupe					
			35	Cutlass Cruiser					
			37	Cutlass Ciera S Coupe					
		M	19	Cutlass Ciera Brougham Sedan					
			27	Cutlass Ciera Brougham Coupe					
			37	Cutlass Ciera SL Coupe					
	N	F	27	Calais Coupe					
			69	Calais Sedan					
		T	27	Calais Supreme Coupe					
			69	Calais Supreme Sedan					
4				BUICK					
	A	H	19	Century Custom Sedan					
			27	Century Custom Coupe					
			35	Century Custom Wagon					
		L	19	Century Limited Sedan					
			27	Century Limited Coupe					
			35	Century Estate Wagon					
	N	J	27	Somerset Custom Coupe					
			69	Skylark Custom Sedan					
		K	27	Somerset T Type Coupe(A)					
		M	27	Somerset Limited Coupe					
			69	Skylark Limited Sedan					

DRIVE AXLE: Front Wheel Drive for A and N Basic Body.

ISSUED: 06-03-85

REVISIONS: A. Added Somerset T Type Coupe by RC 62-142 on 01-15-86.

0121N/16N

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

Manufacturer General Motors Corporation Executive Order No. A-6-335 Page 3

Engine Family G2G2.5V5TPG9 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	T	BT	TNS	TLC	REV. NOTES
151	<u>1</u> 1A	W/WO	16047102 16062072	17085062 17086109	17084743	3125	12 4	A		19	A-3	R8C	CE
							3	A	J	19			
							1234	A		27			
							3	A		37			
						3250	3	A	M	19			
	<u>2</u> 2A		16047112 16064132			3125	12 4	A		19			C
							3	A	J	19			
							1234	A		27			
							3	A		37			
						3250	3	A	M	19			
							1	A		35			
						3375	234	A		35			
	<u>5</u>		16047162			3250	12	F		87	A-4	R8F	
	<u>6</u>		16047262	17086063 17086111		3000	2	P		37	A-3	R8R	
	<u>6A</u>		16051232	17085065									E B C E
	<u>6B</u>		16062092	17086063 17086111									
	<u>7</u>		16047242	17085069	17085939	2875	2	N	E	27		R8N	CDE
	<u>7A</u>		16060832	17086110	17084743		3	N		27			
							4	N	J	27			
						3000	2	N	V	27			
							4	N	M	27			
							234	N		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 and equipment.

ISSUED: 06-03-85

REVISIONS: A. A/C revised from W/WO to WO and 1FP87 ETW
revised from 3250 to 3125 by RC 62-080 on 08-15-85. B. Added
engine code 6A by RC 62-085 on 09-10-85. C. Added engine
codes 1A, 2A, 6B and 7A by RC 62-132 on 01-07-86. D. Added
EGR P/N 17084743 by RC 62-152 on 02-27-86. E. Added TBI P/N
17086109, 17086110 and 17086111 by RC 62-156 on 03-17-86.

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

Manufacturer General Motors Corporation Executive Order No. A-6-335 Page 4

Engine Family G2G2.5V5TPG9 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
151	12	W/WO	16047132	17085062 17086109	17084743	3000	1	A		27	M-4	R8C	F
						3125	1	A		19			
						3250	1	A		35			
16		WO	16047182			3125	1	F		87	M-5	R8F	B
						3250	2	F		87			
17		W/WO	16047252	17085069 17086110	17085939 17084743	2875	23	N		27		R8N	D
							4	N	J	27			DEF
							4	N	M	27			D
							3	N		69			
						3000	2	N	W	27			C
							4	N	K	27			D
							2 4	N		69			
18			16047272	17086063 17086111	17084743	2875	2	P		37		R8R	G
													F
18A			16051052	17085065		2875	2	P	FM	37			AG

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: 06-03-85

REVISIONS: A. A/C revised from W/WO to WO and 1FP87 ETW
revised from 3250 to 3125 by RC 62-080 on 08-15-85.
B. Added engine code 18A by RC 62-085 on 09-10-85. C. Added
models 2NW27 and 2NW69 by RC 62-099 on 09-17-85. D. Added
model 4NK27 by RC 62-142 on 01-15-86. E. Added EGR P/N
17084743 by RC 62-152 on 02-27-86. F. Added TBI P/N
17086109, 17086110 and 17086111 by RC 62-156 on 03-17-86.
G. Added A/C usage to model 2PE37 by RC 62-163 on 04-18-86.