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:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
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:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0.41	7.0	0.7

The following are the certification emission values for this engine family:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
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 3rd day of June, 1985.

K. D. Drachand, Chief
Mobile Source Division

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Manufacturer General Motors Corporation Executive Order No. A-6-335 Page 1

Engine Family G2G2.5V5TPG9 Evaporative Family 6AO-2A, 6BO-2A

Engine 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
1				CHEVROLET
	A	W	19	Celebrity Sedan
			27	Celebrity Coupe
			35	Celebrity Station Wagon
	F	P	87	Camaro Sport Coupe

DIV	BB	TM	BT	MODEL NAME
2				PONTIAC
	A	F	19	6000 Sedan
			27	6000 Coupe
			35	6000 Wagon
		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

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Manufacturer General Motors Corporation Executive Order No. A-6-335 Page 2

Engine Family G2G2.5V5TPG9 Evaporative Family 6AO-2A, 6BO-2A

Engine 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.

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 B	T M	BT	TNS	TLC	REV. NOTES
151	1	W/WO	16047102	17085062	17084743	3125	12 4	A		19	A-3	R8C	
	1A		16062072	17086109			3	A	J	19			CE
							1234	A		27			
							3	A		37			
						3250	3	A	M	19			
	2		16047112			3125	12 4	A		19			
	2A		16064132				3	A	J	19			C
							1234	A		27			
							3	A		37			
						3250	3	A	M	19			
							1	A		35			
						3375	234	A		35			
	5		16047162			3250	12	F		87	A-4	R8F	
	6		16047262	17086063		3000	2	P		37	A-3	R8R	
				17086111									E
	6A		16051232	17085065									B
	6B		16062092	17086063									C
				17086111									E
	7		16047242	17085069	17085939	2875	2	N	E	27		R8N	
	7A		16060832	17086110	17084743		3	N		27			CDE
							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	17084743	3000	1	A		27	M-4	R8C	
				17086109									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	17085939	2875	23	N		27		R8N	D
				17086110	17084743		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	17084743	2875	2	P		37		R8R	G
				17086111									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.