

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-271
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 1984 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>
E1G2.8W2NNA4	173 (2.8)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty 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 the above engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.19	3.9	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 18th day of July, 1983.



K. D. Drachand, Chief
Mobile Source Control Division

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-271 Page 1
 Engine Family E1G2.8W2NNA4 Evaporative Family 4B6-1C
 Engine CID (Liters) 173 (2.8)

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>
				CHEVROLET	2				PONTIAC
A	W		19	Celebrity Sedan		X	Y	37	Phoenix Coupe
			27	Celebrity Notchback Coupe				68	Phoenix Hatchback Sedan
			35	Celebrity Wagon			Z	37	Phoenix LE Coupe
F	P		87	Camaro Sport Coupe				68	Phoenix Hatchback LE Sedan
	S		87	Camaro Berlinetta Sport Coupe					
X	H		11	Citation Coupe					
	X		08	Citation Hatchback Coupe	3				OLDSMOBILE
			68	Citation Hatchback Sedan		X	B	37	Omega Coupe
								69	Omega Sedan
2				PONTIAC			E	37	Omega Brougham Coupe
A	F		19	6000 Sedan				69	Omega Brougham Sedan
			27	6000 Coupe					
			35	6000 Wagon					
	G		19	6000 LE Sedan	4				BUICK
			27	6000 LE Coupe		X	B	37	Skylark Custom Coupe
			35	6000 LE Wagon				69	Skylark Custom Sedan
	H		19	6000 STE Sedan			C	37	Skylark Limited Coupe
F	S		87	Firebird				69	Skylark Limited Sedan
	X		87	Firebird S/E			D	37	Skylark "T-Type" Coupe
X	T		37	Phoenix SJ Coupe					
			68	Phoenix Hatchback SJ Sedan					

DRIVE AXLE: Front wheel drive for A and X basic body.
 Rear wheel drive for F basic body.

ISSUED:
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REVISIONS:

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-271 Page 2

Engine Family E1G2.8W2NNA4 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	51	W & W/O	16027541	17084452, 17084534	17084731	3125	1 1	A A		19 27	A3	XKS	
						3250	2 2	A A		19 27			

53			16027551	17084458, 17084540		3125	1	A		27	A4		
						3250	12 2	A A		19 27			

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.

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REVISIONS:

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GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-271 Page 3

Engine Family E1G2.8W2NNA4 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B	T	BT	TNS	TLC	REV. NOTES
173	61	W & W/O	16027611	17084452, 17084534	17084731	3000	1	X		08	A3	XKS	
							1	X		11			
							234	X		37			
							1	X		68			
							2	X	Y	68			
							34	X	B	69			
							3125	2	X	Z	68		
								3	X	E	69		
								4	X	C	69		

65			16027601	17084453, 17084535	17084746	3000	1	X		08	M4		
							1	X		11			
							234	X		37			
							12	X		68			
							34	X		69			

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GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-271 Page 4

Engine Family E1G2.8W2NNA4 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B	T	BT	TNS	TLC	REV. NOTES
173	67	W & W/O	16027561	17084452, 17084534	17084731	3375	12	A		35	A3	XKS	

69			16027571	17084458, 17084540			12	A		35	A4		
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73			16027731	17084632	17084729		12	F		87			XKW
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77			16027711	17084633		3250	1	F	P	87	M5		
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3375	1	F	S	87
	2	F		87

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GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-271 Page 5

Engine Family E1G2.8W2NNA4 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	83	W & W/O	16027671	17084456, 17084538	17084729	3000	1	X		08	A3	XKT	
							1	X		11			
							1	X		68			
85			16027661	17084455, 17084537		3000	1	X		08	M4		
							1	X		11			
							1	X		68			
87			16027671	17084456, 17084538		3000	1	X		08	A3	XKU	
							1	X		11			
							2	X	YZ	37			
							3	X		37			
							4	X	B	37			
							1	X		68			
							3125	2	X	T		37	
								4	X	CD		37	
								2	X			68	
								34	X			69	
							3375	2	A			19	

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.

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GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-271 Page 6

Engine Family E1G2.8W2NNA4 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	89	W & W/O	16027671	17084455, 17084537	17084729	3000	1	X		08	M4	XKU	
							1	X		11			
							234	X		37			
							1	X		68			
							34	X		69			
							3125	2	X	68			
91			16034981	17084636			3375	2	F	87	A4	XKX	
93			1602777I				3375	2	F	87			

Comments: See page one for abbreviations and evaporative emission family identification
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