State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-333
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)
G2G1.8W9T5W2	110	(1.8)	Three-Way Catalyst with Closed Loop (Electronic Fuel Injection) (Turbocharged)

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
0.39	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
0.11	2.5	0.5

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 19th day of July, 1985.

K. D. Drachand, Chief
Mobile Source Division

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Manufacturer General Motors Corporation Executive Order No. A-6-333 Page 1

Engine Family G2G1.8W9T5W2 Evaporative Family 6B0-2D

Engine CID (Liters) - Type 110 (1.8) - 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
2				PONTIAC
	J	B	69	Sunbird Sedan
		D	27	Sunbird SE Coupe
			67	Sunbird SE Convertible
			77	Sunbird SE Hatchback Coupe
		U	27	Sunbird GT Coupe
			67	Sunbird GT Convertible
			69	Sunbird GT Sedan
			77	Sunbird GT Hatchback Coupe
3				OLDSMOBILE
	J	C	27	Firenza Coupe
			69	Firenza Sedan
			77	Firenza S Hatchback
		D	27	Firenza LC Coupe
			69	Firenza LX Sedan
			77	Firenza GT Hatchback

DIV	BB	TM	BT	MODEL NAME
4				BUICK
	J	E	27	Skyhawk T Type Coupe
			77	Skyhawk Sport T Type Hatchback

DRIVE AXLE: Front Wheel Drive

ISSUED: REVISIONS:

0156N

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GASOLINE-FUELED PASSENGER CARS

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Engine Family G2G1.8W9T5W2 Exhaust Emission Control System TWC, CL (PFI, TC)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	TBI PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
110	21	W/WO	16047362	10026724	NA	2750	3	J	C	27	A-3	R8L	
						2875	23	J	D	27			
							4	J		27			
							3	J		69			
							3	J		77			
						3000	2	J	U	27			
							2	J	D	67			B
							2	J		69			
							2 4	J		77			
						3125	2	J	U	67			B
	22		16054992			2750	3	J		27	M-4		
	22A		16059042				3	J	C	77			A
						2875	2 4	J		27			
							2	J	B	69			
							3	J		69			
							23	J	D	77			
							4	J		77			
						3000	2	J		67			
							2	J	U	69			
							2	J	U	77			

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:

REVISIONS: A. Added engine code 22A by RC 62-062 on 08-02-85. B. Increased model 2JU67 TWC to 3125 lbs by revision 003 on 08-19-85.

0156N/14N