

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-332
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>
G2G1.8V5TDG2	110 (1.8)	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>
0.39	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>
0.23	3.0	0.4

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 16th day of July, 1985.


K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-332 Page 1
 Engine Family G2G1.8V5TDG2 Evaporative Family 6A0-2B
 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	DIV	BB	TM	BT	MODEL NAME
2				PONTIAC	4				BUICK
	J	B	35	Sunbird Wagon		J	E	27	Skyhawk T Type Coupe
			69	Sunbird Sedan				77	Skyhawk Sport T Type Hatchback
	J	D	27	Sunbird SE Coupe			S	27	Skyhawk Custom Coupe
			67	Sunbird SE Convertible				35	Skyhawk Custom Wagon
			77	Sunbird SE Hatchback Coupe				69	Skyhawk Custom Sedan
		U	27	Sunbird GT Coupe				77	Skyhawk Sport Hatchback
			67	Sunbird GT Convertible			T	27	Skyhawk Limited Coupe
			69	Sunbird GT Sedan				35	Skyhawk Limited Wagon
			77	Sunbird GT Hatchback Coupe				69	Skyhawk Limited Sedan
3				OLDSMOBILE					
	J	C	27	Firenza Coupe					
			35	Firenza Cruiser Wagon					
			69	Firenza Sedan					
			77	Firenza S Hatchback					
		D	27	Firenza LC Coupe					
			35	Firenza Cruiser LX Wagon					
			69	Firenza LX Sedan					
			77	Firenza GT Hatchback					

DRIVE AXLE: Front Wheel Drive

ISSUED: 07-16-85

REVISIONS: A. Added models 4JE27 and 4JE77 by RC 62-154 on 03-06-86.

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

Manufacturer General Motors Corporation Executive Order No. A-6-332 Page 2

Engine Family G2G1.8V5TDG2 Exhaust Emission Control System 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
110	1	W & NO	16047212	17085061, 17086108	17085908	2750	2	J	D	27	A-3	R8J	C
							3	J		27			
							4	J	S	27			
						2875	2	J	U	27			
							4	J	TE	27			B
							234	J		35			
							234	J		69			
							234	J		77			B
						3000	2	J		67			
	2		16047222			2750	2	J	D	27	M-5		B
							34	J		27			
							2	J	B	69			
							3	J	C	69			
							4	J		69			
							34	J		77			B
						2875	2	J	U	27			
							234	J		35			
							2	J	D	67			A
							2	J	U	69			
							3	J	D	69			
							2	J		77			
						3000	2	J	U	67			A

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: 07-16-85

REVISIONS: A. Added model 2JU67 by RC 62-061 on 08-09-85.
B. Added models 4JE27 and 4JE77 by RC 62-154 on 03-06-86.
C. Added TBI P/N 17086108 by RC 62-156 on 03-17-86.