State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-193 Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 General Motors Corporation exhaust emission control systems are certified as described below for 1981 model-year gasoline-powered passenger cars.

Engine Family	Displacement Cubic Inches (Liters)	Exhaust Emission Control Systems (Special Features)					
12S4AB	301 (4.9)	Air Injection - Pump Exhaust Gas Recirculation Three Way Catalyst System with Closed Loop					

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the certification emission values to be listed on the window decal required by California Assembly-Line Test Procedures for 1981 model-year vehicles:

	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
Engine Family	<u>Grams per Mile</u>	Grams per Mile	Grams per Mile		
12S4AB	0.17	3.0	0.6		

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 except Motorcycles".

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 Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That General Motors Corporation has provided to the Executive Officer 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.

day of August, 1980.

K. D. Drachand, Chief

Mobile Source Control Division

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Co	orp. Executive Order No. A-6- 193	Page 1	
Engine Family 12S4AB	Evaporative Family1B4S-2	and the second s	
ABBREVIATIONS	Engine CID (Liters) <u>301 (4.9)</u>		
Ignition System CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard Fuel System CFI, DI, EFI, MFI nV-nVenturi Carburetor VV-Variable Venturi	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	Special Features CCV-Combustion Chamber Valve CFI-Central Fuel Injection DI-Diesel Injection EFI-Electronic Fuel Injection MFI-Mechanical Fuel Injection TC-Turbocharged	
Division Basic Body Trim Body Type	Pontiac F S 87 Firebird T 87 Firebird Esprit V 87 Firebird Formula W 87 Firebird Trans Am	- 1. 3 4. 4	
2 Pontiac A D 35 LeMans Safari Station F 35 Grand LeMans Safari S			

Issued: 081880.

AIR RESOURCES BOARD 1981 SUPPLEMENTAL DATA SHEET - GM FORMAT Gasoline-fueled Passenger Car

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No.A-6-193

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Engine Family 12S4AB	Engine CID	301	Transm.	
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Exhaust Emission Control System AIP, EGR, TWC, CL

E	Exhaust Emission Control System AIP, EGR, TWC, CL											
Eng. Code	Air Cond.	Electron. Control Module Part No.	Fuel System 2V Carb. Part No.	EGR Valve Part No.	Test Wt. Class	Divisions	Basic Body	Trim	Body Type	Trans- mission	Tune-up Label Code	Rev. Notes
1	W	Delco Electron- ics 16012801	Rochester 17081272	17075584	4000	2	А		35	АЗ	PAS	A
3		16012852 and 16013302 (1)	17081270	17075504	4000	2	F		87		PAT	

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. (1) 2852 for C4 System, 3302 for Electronic Spark Control System,

Date of Issue: 081880. Revisions: A. ECM column was Ign. Syst. Column (format updated) 041081.