

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-188
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.

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
14E2TM	231 (3.8)	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:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
14E2TM	0.28	7.0	0.3

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", amended June 26, 1980.

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.

Executed at El Monte, California this 19th day of August, 1980.

K. D. Drachand
K. D. Drachand, Chief
Mobile Source Control Division

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corp. Executive Order No. A-6-188 Page 1

Engine Family 14E2TM Evaporative Family 1B3S-4

ABBREVIATIONS Engine CID (Liters) 231 (3.8)

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

Special Features

- CCV-Combustion Chamber Valve
- CFI-Central Fuel Injection
- DI-Diesel Injection
- EFI-Electronic Fuel Injection
- MFI-Mechanical Fuel Injection
- TC-Turbocharged

Fuel System

- CFI, DI, EFI, MFI
- nV-nVenturi Carburetor
- VV-Variable Venturi

Division
Basic Body
Trim
Body Type

Division
Basic Body
Trim
Body Type

- 1
- Chevrolet
 - A T 27 Malibu Sport Coupe
 - 35 Malibu Station Wagon
 - 69 Malibu Sedan
 - W 27 Malibu Classic Sport Coupe
 - 35 Malibu Classic Station Wagon
 - 69 Malibu Classic Sedan
 - 80 El Camino
 - Z 37 Monte Carlo Sport Coupe
 - B L 47 Impala Sport Coupe
 - 69 Impala Sedan
 - N 47 Caprice Classic Sport Coupe
 - 69 Caprice Classic Sedan
 - F P 87 Camaro Sport Coupe
 - S 87 Camaro Berlinetta Coupe

- 2
- Pontiac
 - A D 27 LeMans Coupe
 - 35 LeMans Safari Station Wagon
 - 69 LeMans Sedan
 - F 27 Grand LeMans Coupe
 - 35 Grand LeMans Safari Station Wagon
 - 69 Grand LeMans Sedan
 - J 37 Grand Prix
 - K 37 Grand Prix LJ
 - P 37 Grand Prix Brougham
 - B L 37 Catalina Safari Station Wagon
 - 69 Catalina Sedan
 - N 37 Bonneville Coupe
 - 69 Bonneville Sedan
 - R 37 Bonneville Brougham Coupe
 - 69 Bonneville Brougham Sedan
 - F S 87 Firebird
 - T 87 Firebird Esprit
 - V 87 Firebird Formula

Pontiac Firebird Formula added by RC 14-120, on 102280.
Issued: 081180.

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corp. Executive Order No. A-6-188 Page 2

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Ignition System

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Exhaust Emissions Control System

AIP-Air Injection-Pump
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 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

Fuel System

CFI, DI, EFI, MFI
 nV-nVenturi Carburetor
 VV-Variable Venturi

Division
 Basic Body
 Trim
 Body Type

Division
 Basic Body
 Trim
 Body Type

3 Oldsmobile
 A G 35 Cutlass Cruiser
 H 35 Cutlass Cruiser Brougham
 K 47 Cutlass Calais Coupe
 M 47 Cutlass Supreme Brougham Coupe
 69 Cutlass Brougham Sedan
 B L 37 Delta 88 Coupe
 69 Delta 88 Sedan
 N 37 Delta 88 Royale Coupe
 69 Delta 88 Royale Sedan
 Y 37 Delta 88 Royale Brougham Coupe
 69 Delta 88 Royale Brougham Sedan

4 Buick
 A E 35 Century Wagon
 H 35 Century Estate Wagon
 69 Century Sedan
 J 47 Regal Coupe
 L 69 Century Limited Sedan
 M 47 Regal Limited Coupe
 B N 37 LeSabre Coupe
 69 LeSabre Sedan
 P 37 LeSabre Limited Coupe
 69 LeSabre Limited Sedan

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

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-188

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Engine Family 14E2TM Engine CID 231 Transm. _____

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
5A	W & WO	Delco Electronics 16015654	Rochester 17081194	17075656	3625	1	A		80	A-3	BAB	A
					3750	1 2 3 4	A		35			E
6A		16015664	17081198	17075658	3875	1	B		47		BAD	A
						1	B	L	69			
					4000	2 3 4	B		37			
					1	2 3 4	B	N	69			
					2 3 4	B			69			
7A 7B		16016644 16012784	17081196 17081199	17070189 17070188	3750	1 2	F		87		BAG	A F
8A		16014894	17081198	17070188	3625	1 2	A		27		BAB	A
8B	17081498		1			A		37				
8C	17081496		3			A	R	47				
			4			A	J	47				
			2			A		69				
		3	A	GR	69							
		4	A	H	69							
					3750	2	A		37			
						3	A	K	47			
						3 4	A	M	47			
						3	A	M	69			
						4	A	L	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, equipment and frontal area.

Date of Issue: 081180. Revisions: A. EC 5A, 6A, 7A, 8A added by RC 14-19 & 34, included in original certification 081180. B. EC 8B added by RC 14-160, C. EC 8C added by RC 14-180, on 112480. D. 1BN69 was 3875 lb. before letter ML-1P1147, rev. on 112580. E. ECM column was Ign. Syst. column (format updated); F. EC 7B added by RC 14-247, on 032681.