

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-163-1  
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 1980 model-year gasoline-powered passenger cars:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
01C2XC	173	Pulse Air Injection Exhaust Gas Recirculation Three Way Catalyst 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 1980 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>
01C2XC	0.26	6.5	0.5

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 1980 Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

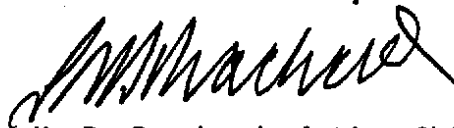
BE IT FURTHER RESOLVED: That General Motors Corporation has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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.

Executive Order A-6-163, dated May 31, 1979, is hereby rescinded.

Executed at El Monte, California this 13<sup>th</sup> day of August, 1979.



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

1980 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer GENERAL MOTORS CORP. Executive Order No. A-6-163-1 Page 1  
 Engine Family 01C2XC Engine (CID) 173

Evap. Family 0B6-1

ABBREVIATIONS

Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance	AI-Air Injection	CCAV-Combustion Chamber Air Valve
EEC-Electronic Engine Control	CL-Closed Loop	EFI-Electronic Fuel Injection
EI-Electronic Ignition	EGR-Exhaust Gas Recirculation	MFI-Mechanical Fuel Injection
ESAC-Electronic Spark Advance Control	EM-Engine Modification	TC-Turbo Charged
VA-Vacuum Advance	OC-Oxidation Catalyst	
VR-Vacuum Retard	PAI-Pulse Air Injection	
	TR-Thermal Reactor	
	TWC-Three Way Catalyst	
Fuel System		
EFI, MFI		
nV-nVenturi Carburetor		
VV-Variable Venturi		

<u>Division</u>	<u>Basic Body</u>	<u>Trim</u>	<u>Body Type</u>	<u>Name</u>
1	X	X	11	Chevrolet - Citation Club Coupe
	X	H	11	Coupe
	X	X	08	Hatchback Coupe
	X	X	68	Hatchback Sedan
2	X	Y	37	Pontiac - Phoenix Coupe
	X	Y	68	Hatchback Sedan
	X	Z	37	SJ Coupe
	X	Z	68	Hatchback SJ Sedan
3	X	B	37	Oldsmobile - Omega Omega Coupe
	X	B	69	Omega Sedan
	X	E	37	Omega Brougham Coupe
	X	E	69	Omega Brougham Sedan
4	X	B	37	Buick - Skylark Coupe
	X	B	69	Sedan
	X	C	37	Coupe
	X	C	69	Sedan
	X	D	37	Coupe
	X	D	69	Sedan

AIR RESOURCES BOARD 1980 SUPPLEMENTAL DATA SHEET - GM FORMAT

Gasoline-fueled Passenger Car

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-163-1

Engine Family 01C2XC Engine CID 173 Transm. \_\_\_\_\_

Exhaust Emission Control System EGR, TWC, w/CL PAI +10% (A/C) Yes  No

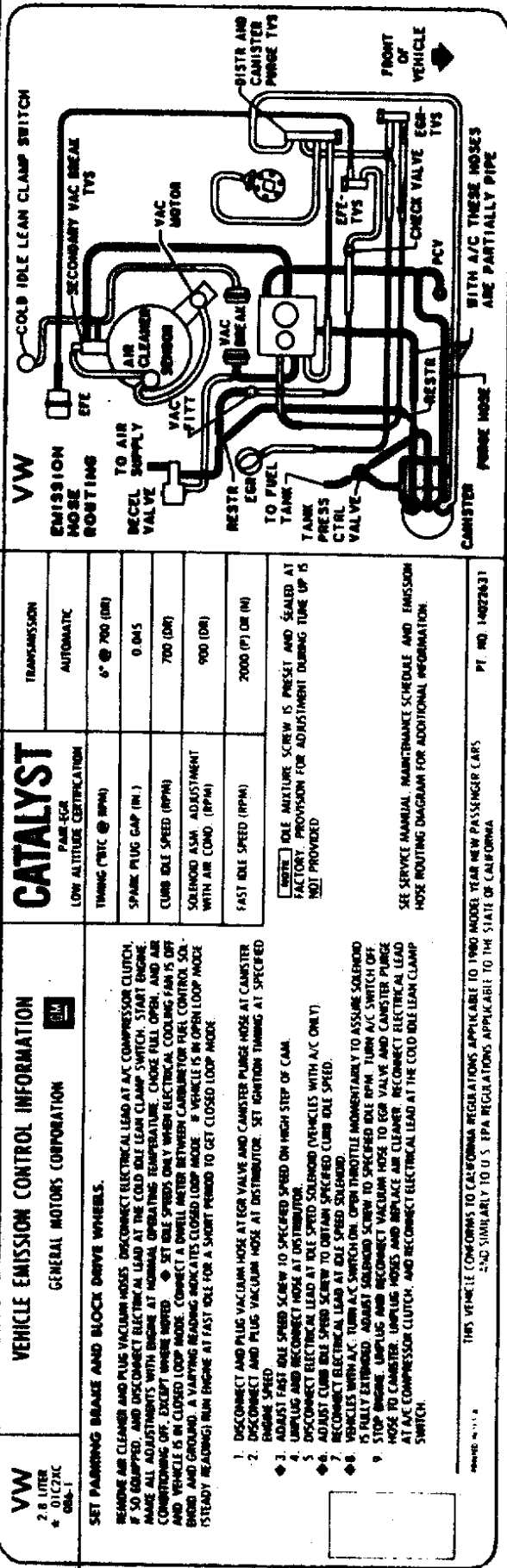
Eng. Code	Air Cond.	Ign. Syst. EI, CA, VA Dist. Part No.	Fuel System 2 V Carb. Part No.	EGR Valve Part No.	Test Wt. Class	Divisions	Basic Body	Trim	Body Type	Trans- mission	Tune-up Label	Rev. Notes
1	W	Delco Remy 1103361	Rochester 17059768	17061108	3000	1	X		08	A3	VW	A
			2			X	11					
						3	X		37			C
						2	X		37			
						3	X		68			
						4	X		69			
1A			17080740		3000	1	X		08		33	B
							2	X		11		
						3	X		37			C
						4	X		37			
						2	X		68			
						3	X		69			
						4	X	B	69			
2	W/O		17059760		2875	1	X		08		VW	
							3	X		11		
						4	X		37			
						3	X		69			
						4	X	B	69			
					3000	2	X		37			
							1	X		68		
						4	X	CD	69			
2A			17080742		2875	1	X		08		33	B
							3	X		11		
						4	X		37			
						3	X		69			
						4	X	B	69			
					3000	2	X		37			
							1	X		68		
						4	X	CD	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: 053079 Revisions: A. Tune-Up label VS replaced by VW, by RC 01-21, on 062279. E.O. No. updated to -1, AI corrected to PAI, Gasoline-fueled added, inertia weight class corrected to frontal area, on 081579. Pg. 3 (Tune Up labels) deleted (dropped from format), B. EC 1A & 2A added by RC 01-135, on 122179. C. 3XB37 and 1XX68 were 2875 lb. before RC 01-212, approved on 051980.

Manufacturer: General Motors Corporation

Executive Order No. A-6-163-1 Pg. 3



CATALYST		TRANSMISSION
LOW ALTITUDE CERTIFICATION	FAIR-EGR	AUTOMATIC
TIMING (° BTDC @ RPM)		6" @ 700 (RR)
SPARK PLUG GAP (IN.)		0.045
CURB IDLE SPEED (RPM)		700 (DR)
SOLENOID ASJA ADJUSTMENT WITH AIR COND. (RPM)		900 (DR)
FAST IDLE SPEED (RPM)		2000 (P) DR (H)

**VEHICLE EMISSION CONTROL INFORMATION**

GENERAL MOTORS CORPORATION

SET PARKING BRAKE AND BLOCK DRIVE WHEELS.

REMOVE AIR CLEANER AND PLUG VACUUM HOSES. DISCONNECT ELECTRICAL LEAD AT A/C COMPRESSOR CLUTCH, IF SO EQUIPPED, AND DISCONNECT ELECTRICAL LEAD AT THE COLD IDLE LEAN CLAMP SWITCH. START ENGINE. MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE. CHOKE FULLY OPEN AND AIR CONDITIONING OFF, EXCEPT WHERE NOTED. SET IDLE SPEED ONLY WHEN ELECTRICAL COOLING FAN IS OFF AND VEHICLE IS IN CLOSED LOOP MODE. CONNECT A SHELL METER BETWEEN CANISTER FUEL CONTROL SOLENOID AND GROUND. A VARYING READING INDICATES CLOSED LOOP MODE. IF VEHICLE IS IN OPEN LOOP MODE (STEADY READING) RUN ENGINE AT FAST IDLE FOR A SHORT PERIOD TO GET CLOSED LOOP MODE.

1. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CANISTER PURGE HOSE AT CANISTER.
2. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED.
3. ADJUST FAST IDLE SPEED SCREW TO SPECIFIED SPEED ON HIGH STEP OF CAM.
4. UNPLUG AND RECONNECT HOSE AT DISTRIBUTOR.
5. DISCONNECT ELECTRICAL LEAD AT IDLE SPEED SOLENOID (VEHICLES WITH A/C ONLY).
6. ADJUST CURB IDLE SPEED SCREW TO OBTAIN SPECIFIED CURB IDLE SPEED.
7. RECONNECT ELECTRICAL LEAD AT IDLE SPEED SOLENOID.
8. VEHICLES WITH A/C: TURN A/C SWITCH ON. OPEN THROTTLE MOMENTARILY TO ASSURE SOLENOID IS FULLY EXTENDED. ADJUST SOLENOID SCREW TO SPECIFIED RPM. TURN A/C SWITCH OFF.
9. STOP ENGINE. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CANISTER PURGE HOSE TO CANISTER. UNPLUG HOSES AND REPLACE AIR CLEANER. RECONNECT ELECTRICAL LEAD AT A/C COMPRESSOR CLUTCH, AND RECONNECT ELECTRICAL LEAD AT THE COLD IDLE LEAN CLAMP SWITCH.

NOTE: IDLE MIXTURE SCREW IS PRESET AND SEALED AT FACTORY. PROVISION FOR ADJUSTMENT DURING TUNE UP IS NOT PROVIDED.

SEE SERVICE MANUAL, MAINTENANCE SCHEDULE AND EMISSION HOSE ROUTING DIAGRAM FOR ADDITIONAL INFORMATION.

THIS VEHICLE CONFORMS TO CALIFORNIA REGULATIONS APPLICABLE TO 1980 MODEL YEAR NEW PASSENGER CARS AND SIMILARLY TO U.S. EPA REGULATIONS APPLICABLE TO THE STATE OF CALIFORNIA.

PT. NO. 14022631

Label VS replaced by label VW, by RC01-21, on 062279. E.O. No. updated to-1, on 081579.