

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-304
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 1985 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger car:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
F4G3.8W2NSYO	181, 231 (3.0, 3.8)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles":

<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 the above engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.10	0.8	0.6

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of 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 Executive Officer has been provided 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 3rd day of July, 1984.


K. D. Drachand, Chief
Mobile Source Division

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Manufacturer General Motors Corporation Executive Order No. A-6-304 Page 1

Engine Family F4G3.8W2NSYO Evaporative Family 5B3-4D

Engine CID (Liters) - Type 231/181 (3.8/3.0)

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

<u>DIV</u>	<u>BB</u>	<u>TM</u>	<u>BT</u>	<u>MODEL NAME</u>	<u>DIV</u>	<u>BB</u>	<u>TM</u>	<u>BT</u>	<u>MODEL NAME</u>
2				PONTIAC	3				OLDSMOBILE
	G	J	37	Grand Prix		C	W	11	Ninety-Eight Regency Brougham Coupe
		K	37	Grand Prix LE					
		P	37	Grand Prix Brougham			X	11	Ninety-Eight Regency Coupe
		N	69	Bonneville Sedan			W	69	Ninety-Eight Regency Brougham Sedan
		R	69	Bonneville Brougham Sedan					
		S	69	Bonneville LE Sedan			X	69	Ninety-Eight Regency Sedan
						G	K	47	Cutlass Supreme Calais Coupe
3				OLDSMOBILE			M	47	Cutlass Supreme Brougham Coupe
	A	J	19	Cutlass Ciera LS Sedan			R	47	Cutlass Supreme Coupe
		M	19	Cutlass Ciera Brougham Sedan			M	69	Cutlass Supreme Brougham Sedan
		J	27	Cutlass Ciera LS Coupe					
		M	27	Cutlass Ciera Brougham Sedan			R	69	Cutlass Supreme LS Sedan
		J	35	Cutlass Cruiser Wagon					
	B	N	37	Delta 88 Royale Coupe					
		Y	37	Delta 88 Royale Brougham Coupe					
		N	69	Delta 88 Royale Sedan					
		V	69	Delta 88 Royale Brougham LS Sedan					
		Y	69	Delta 88 Royale Brougham Sedan					

DRIVE AXLE: Front Wheel Drive for A & C Basic Body
 Rear Wheel Drive for B & G Basic Body

ISSUED:

REVISIONS:

0696P

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Engine Family F4G3.8W2NSY0 Evaporative Family 5B3-4D

Engine CID (Liters) - Type 231/181 (3.8/3.0)

<u>DIV</u>	<u>BB</u>	<u>TM</u>	<u>BT</u>	<u>MODEL NAME</u>	<u>DIV</u>	<u>BB</u>	<u>TM</u>	<u>BT</u>	<u>MODEL NAME</u>
4				BUICK					
	A	H	19	Century Custom Sedan					
		L	19	Century Limited Sedan					
		H	27	Century Custom Coupe					
		L	27	Century Limited Coupe					
		H	35	Century Custom Wagon					
		L	35	Century Limited Wagon					
	B	N	37	LeSabre Custom Coupe					
		P	37	LeSabre Limited Coupe					
		N	69	LeSabre Custom Sedan					
		P	69	LeSabre Limited Sedan					
	C	W	11	Electra Park Avenue 2 Dr Sedan					
		X	11	Electra 300/380/430 2 Dr Sedan					
		W	69	Electra Park Avenue 4 Dr Sedan					
		X	69	Electra 300/380/430 4 Dr Sedan					
	G	J	47	Regal Coupe					
		M	47	Regal Limited Coupe					

DRIVE AXLE: Front Wheel Drive for A & C Basic Body
 Rear Wheel Drive for B & G Basic Body

ISSUED:

REVISIONS:

0696P

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-304 Page 3

Engine Family F4G3.8W2NSYO Exhaust Emission Control System AIP, CL, EGR, TWC

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V PART NO.	EGR VALVE PART NO.	ETW	DIV	B	T	BT	TNS	TLC	REV. NOTES
181	1,1A	W & WO	16038524	17084195 17085192	17084763	3250	3	A	J	19	A-3	JKB	B
							4	A		19			
							34	A		27			
						3375	3	A	M	19			C
						3500	34	A		35			
2			16047134	17084193 17083194 17085194		3250	4	A		27	A-4	JKD	
						3375	4	A		19			
						3500	4	A		35			
3		W	16047134		17084765	3625	34	C		11			JKM(1)
							34	C		69			JKS(1)
4		W & WO	16038544	17084191 17085190	17084749	3625	2	G		37	A-3	JDB	
4A							34	G		47			A
							2	G		69			
							3	G	R	69			
						3750	3	G	M	69			
5			16038564	17084191 17085190		4000	34	B		37			
5A							34	B		69			A

(1) JKM for Buick models and JKS for Oldsmobile models.

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 - Engine Codes 4A & 5A added by RC 54-064 on 06-26-84. Note that the ECM was recalibrated by RC 54-064 but P/N was not changed. B. Engine code 1A added by RC 54-075 on 07-23-84. Note that the ECM was recalibrated by RC 54-075 but part number was not changed. C. 3AM19 model updated to 3375 ETW from 3250 ETW by RC 54-210 on 02-26-85.