State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-368
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 1987 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Cubic Inches (Liters)	Exhaust Emission Control Systems (Special Features)
H2G3.8V8XEB7	181/231 (3.0/3.8)	Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Electronic 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:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0.41	7.0	0.7

The following are the certification emission values for this engine family:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.20	2.2	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".

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 May, 1986.

K. D. Drachand, Chief
Mobile Source Division

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Manufacturer General Motors Corporation Executive Order No. A-6-368 Page 1

Engine Family H2G3.8V8XEB7 Evaporative Family 7BO-2D

Engine CID (Liters) - Type 231 (3.8) - V6 181 (3.0) - V6

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
nV-nVenturi Carburetor
VV-Variable Venturi

Special Features
CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
EFI-Electronic Fuel Injection
IC-Intercooler
MFI-Mechanical Fuel Injection
TC-Turbocharger

DIV	BB	TM	BT	MODEL NAME
2				PONTIAC
	H	X	69	Bonneville Sedan
		Z	69	Bonneville LE Sedan
	N	E	27	Grand Am Coupe
			69	Grand Am Sedan
		V	27	Grand Am LE Coupe
			69	Grand Am LE Sedan
		W	27	Grand Am SE Coupe
			69	Grand Am SE Sedan
3				OLDSMOBILE
	A	J	19	Cutlass Ciera Sedan
			35	Cutlass Cruiser
			37	Cutlass Ciera S Coupe
		M	19	Cutlass Ciera Brougham Sedan
			35	Cutlass Brougham Cruiser
			37	Cutlass Ciera SL Coupe

DIV	BB	TM	BT	MODEL NAME
3				OLDSMOBILE
	C	W	11	Ninety-Eight Regency Brougham Coupe
			69	Ninety-Eight Regency Brougham Sedan
		X	69	Ninety-Eight Rengency Sedan
	E	Z	57	Toronado Brougham Coupe
	H	N	37	Delta 88 Royale Coupe
			69	Delta 88 Royale Sedan
		Y	37	Delta 88 Royale Brougham Coupe
			69	Delta 88 Royale Brougham Sedan
	N	F	27	Calais Coupe
			69	Calais Sedan
		T	27	Calais Supreme Coupe
			69	Calais Supreme Sedan

DRIVE AXLE: Front Wheel Drive

ISSUED: REVISIONS:

0523Q

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Manufacturer General Motors Corporation Executive Order No. A-6-368 Page 2

Engine Family H2G3.8V8XEB7 Evaporative Family 7B0-2D

Engine CID (Liters) - Type 231 (3.8) - V6

DIV	BB	TM	BT	MODEL NAME	DIV	BB	TM	BT	MODEL NAME
4				BUICK					
	A	H	19	Century Custom Sedan					
			27	Century Custom Coupe					
			35	Century Custom Wagon					
		L	19	Century Limited Sedan					
			27	Century Limited Coupe					
			35	Century Estate Wagon					
	C	F	69	Electra T Type 4 Dr Sedan					
		W	11	Electra Park Avenue 2 Dr Sedan					
			69	Electra Park Avenue 4 Dr Sedan					
		X	69	Electra Limited 4 Dr Sedan					
	E	Z	57	Riviera Coupe					
	H	H	37	LeSabre Coupe					
			69	LeSabre Sedan					
		P	37	LeSabre Custom Coupe					
			69	LeSabre Custom Sedan					
		R	37	LeSabre Limited Coupe					
			69	LeSabre Limited Sedan					
	N	C	69	Skylark Custom Sedan					
		D	69	Skylark Limited Sedan					
		J	27	Somerset Custom Coupe					
		M	27	Somerset Limited Coupe					

DRIVE AXLE: Front Wheel Drive

ISSUED:

REVISIONS: Model 4CF69 added by RC 72-011 on 05-19-86.

0523Q/53Q

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-368 Page 2

Engine Family H2G3.8V8XEB7 Exhaust Emission Control System CL (EFI) EGR-TWC

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
181	7	W & WO	16053664	25525040	17085910	3000	234	N		27	A-3	NGK	
				25526958			3	N		69			
						3125	2 4	N		69			
231	1	W & WO	16053694	25525639	17086704	3250	4	A		27	A-4	NGI	
				25526959									
						3375	34	A		19			
							3	A		37			
						3500	34	A		35			
	2,2A	W	16053704			3625	34	C		11		NGJ,	A
							34	C		69		NGK	
	3,3A		16061504			3500	3	H		37			A
							3	H	N	69			
						3625	34	C		11			
							4	H		37			
							34	C		69			
							2 4	H		69			
							3	H	Y	69			
	4,4A		16053684			3500	3	H		37			A
							3	H	N	69			
						3625	34	C		11			
							4	H		37			
							34	C		69			
							2 4	H		69			
							3	H	Y	69			
	5		16053724			3625	34	E		57		NGK	
	6		16061494			3625	34	E		57			

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 2A, 3A and 4A added by RC 72-003 on 04-09-86.

0523Q/53Q

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-368 Page 3

Engine Family H2G3.8V8XEB7 Exhaust Emission Control System CL (EFI) EGR-TWC

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
181	7	W &	16053664	25525040	17085910	3000	234	N		27	A-3	NGK	
		WO		25526958			3	N		69			
				25529475									B
						3125	2 4	N		69			
231	1	W &	16053694	25525639	17086704	3250	4	A		27			
	1A	WO	16067004	25526959									C
	1B		16063504	25529476		3375	34	A		19			D
	1C		16078954				3	A		37			E
	1D		16081254										G
						3500	34	A		35			
	2,2A	W	16053704			3625	34	C		11		NGJ,	A
	2B		16067014				34	C		69		NGK	C
	2C		16073494										D
	2D		16078964										E
	2E		16081264										G
	3,3A		16061504			3500	3	H		37			A
	3B		16067024										C
	3C		16073084										D
	3D		16078974			3625	34	C		11			E
	3E		16081274				4	H		37			G
							34	C		69			
							234	H		69			F

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: 05-16-86

REVISIONS: A. Engine codes 2A, 3A and 4A added by RC 72-003 on 04-07-86. B. Optional rail & injector P/N added by RC 72-004 on 04-15-86. C. Engine codes 1A, 2B, 3B, 4B, 5A and 6A added by RC 72-012 on 05-21-86. D. Engine codes 1B, 2C, 3C, 4C, 5B and 6B added by RC 72-082 on 10-07-86. E. Engine codes 1C, 2D and 3D added by RC 72-117 on 01-13-87. F. Model 3HN69 increased ETW to 3625 by RC 72-141 on 03-20-87. G. Engine codes 1D, 2E and 3E added by RC 72-149.

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GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-368 Page 4

Engine Family H2G3.8V8XEB7 Exhaust Emission Control System CL (EFI) EGR-TWC

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
231	4,4A		16053684	25525639	17086704	3500	3	H		37	A-3	NGJ,	A
	4B		16067034	25526959								NGK	C
	4C		16071694	25529476									D
	4D		16078984			3625	34	C		11			E
	4E		16081284				4	H		37			G
							34	C		69			
							234	H		69			F
	5		16053724			3625	34	E		57		NGK	
	5A		16067044										C
	5B		16074444										D
	5C		16078994										E
	6		16061494			3625	34	E		57			
	6A		16067054										C
	6B		16074454										D
	6C		16079004										E

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: 05-16-86

REVISIONS: A. Engine codes 2A, 3A and 4A added by RC 72-003 on 04-07-86. C. Engine codes 1A, 2B, 3B, 4B, 5A and 6A added by RC 72-012 on 05-21-86. D. Engine codes 1B, 2C, 3C, 4C, 5B and 6B added by RC 72-082 on 10-07-86. E. Engine codes 4D, 5C and 6C added by RC 72-117 on 01-13-87. F. Model 3HN69 increased ETW to 3625 by RC 72-141 on 03-20-87. G. Engine code 4E added by RC 72-149.