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

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	<u>Grams per Mile</u>	<u>Grams per Mile</u>
0.20	2 2	0.5
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 day of May, 1986.

K. D. Drachand, Chief Mobile Source Division

### 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

	Manufacturer General Motors Corporati	on Executive Order No.	A-6-368	Page _	_1
_	Engine Family H2G3.8V8XEB7	Evaporative Family	7B0-2D	•	
	Engine CID (Liters) - Type	231 (3.8) - V6 18	1(3.0)-V6	?	
	ABBREVIATIONS				
	CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	Headings AIR COND-Air Conditioning BB-Basic Body BT-Body Type DI-Diesel Injection DIN-Diesel Injector Nozzle DIV-Division ECM-Electronic Control Mod ETW-Equivalent Test Weight	CCV- CFI- s DID- ule	ial Feat Combusti Chamber Central Injectio Diesel Injectio Direct Diesel	on Valve Fuel n
	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	TLC-Tune-Up Label Code TNS-Transmission TM-Trim  Fuel System CFI,CL,DID,DIP,EFI,MFI nV-nVenturi Carburetor VV-Variable Venturi	EFI-     IC-   MFI- 	Injectio Prechamb Electron Fuel Inj Intercoo Mechanic Fuel Inj urbochar	er ic ection ler al ection

DIV	BB	TM	<u>BT</u>	MODEL NAME	DIV	BB	TM	<u>BT</u>	MODEL NAME
2				PONTIAC	3				OLDSMOBILE
	Н	Χ	69	Bonneville Sedan		С	W	11	Ninety-Eight Regency
		Z	69	Bonneville LE Sedan					Brougham Coupe
	N	Ε	27 69	Grand Am Coupe Grand Am Sedan				69	Ninety-Eight Regency Brougham Sedan
		٧	27	Grand Am LE Coupe			Χ	69	Ninety-Eight Rengency Sedan
			69	Grand Am LE Sedan		Ε	Z	57	Toronado Brougham Coupe
		W	27	Grand Am SE Coupe		Н	N	37	Delta 88 Royale Coupe
			69	Grand Am SE Sedan				69	Delta 88 Royale Sedan
							Υ	37	Delta 88 Royale Brougham
3				OLDSMOBILE					Coupe
	Α	J	19	Cutlass Ciera Sedan				69	Delta 88 Royale Brougham
			35	Cutlass Cruiser					Sedan
			37	Cutlass Ciera S Coupe		N	F	27	Calais Coupe
		M	19	Cutlass Ciera Brougham Sedan				69	Calais Sedan
			35	Cutlass Brougham Cruiser			T	27	Calais Supreme Coupe
			37	Cutlass Ciera SL Coupe				69	Calais Supreme Sedan

DRIVE AXLE: Front Wheel Drive

TWC-Three Way Catalyst System

SSUED:

**REVISIONS:** 

0523Q

### 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation				Executive	0rd	ler N	lo	A-6-368	Page _		
Engi	ne F	amil	у	H2G3.8V8XEB7	Evaporati	ve F	amil	у	7B0-2D		
Engi	ne C	ID (	Lite	ers) - Type	231 (3.	8) -	. <b>V</b> 6	<del></del>			
DIV	BB	TM	BT	MODEL NAME	DIV	BB	TM	BT	MODEL	NAME	
4				BUICK							
	Α	Н	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 Seda	n						
		W	11	Electra Park Avenue 2 Dr							
			69	Electra Park Avenue 4 Dr							
		X	69	Electra Limited 4 Dr Sed	an						
	E	Z	57	Riviera Coupe							
	Н	Н	37	LeSabre Coupe							
		_	69	LeSabre Sedan							
		Ρ	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 Coune							

DRIVE AXLE: Front Wheel Drive

ISSUED: 05230/530 REVISIONS: Model 4CF69 added by RC 72-011 on 05-19-86.

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

-Manuf	facture	r <u>Gene</u>	ral Motors	Corporati	on Executi	ive Ord	er No.	A	-6-3	368	Pag	je	2
Engir	ne Fami	1y <u>H</u> 2	G3.8V8XEB7	_ Exhaust	Emission (	Control	System		Cl	_ (EF	I) EG	R-TWC	· · · · · · · · · · · · · · · · · · ·
ENG.	ENG.	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	ВТ	TNS	TLC	REV. NOTES
181	7	W & WO	16053664	25525040 25526958	17085910	3000	234 3	N N		27 69	A-3	NGK	
						3125	2 4	N		69			
231	1	W &	16053694	25525639 25526959	17086704	3250	4	Α		27	A-4	NGI	
		NO		23320333		3375	34 3	A		19 37			
						3500	34	Α		35			
	2,2A	W	16053704			3625	34 34	C		11 69	•	NGJ, NGK	Α
	3,3A		16061504			3500	3 3	Н	N	37 69			Α
						3625	34 4 34 2 4 3	C H C H H	Y	11 37 69 69 69			
	4,4A		16053684			3500	3 3	H H	N	37 69			A
						3625	34 4 34 2 4 3	C H C H	Y	11 37 69 69 69			
	5		16053724			3625	34	Ē		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.

SUED:

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

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

Manufacturer General Motors Corporation Executive Order No. <u>A-6-368</u> Page <u>3</u> ine Family <u>H2G3.8V8XEB7</u> Exhaust Emission Control System <u>CL (EFI) EGR-TWC</u> RAIL & ENG. ECM ENG. AIR INJECTOR EGR VALVE Т REV. В В М CID CODE COND PART NO. PART NO. PART NO. ETW DIV BT TNS TLC NOTES 181 7 W & 3000 16053664 25525040 17085910 234 A-3 N 27 NGK MO 25526958 3 N 69 В 25529475 3125 2 4 N 69 231 W & 16053694 25525639 17086704 3250 4 27 Α 1A C MO <u>16067004</u> 25526959 1B 16063504 25529476 . 3375 34 Α 19 D Ε 16078954 3 Α 37 16081254 G 3500 34 35 Α 2,2A W 16053704 3625 34 C 11 NGJ. Α C <u>2B</u> 34 69 NGK C 16067014 <u>2C</u> D 16073494 Ε 2D 16078964 G 16081264 3,3A 16061504 3500 3 Н 37 Α <u>3B</u> 16067024 C D <u>3C</u> 16073084 3625 34 11 <u>3D</u> 16078974 E 3E Н 16081274 4 37 G 34 C 69 Н F 234 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 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.

## 19,87 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. <u>A-6-368</u> Page <u>4</u> "ngine Family H2G3.8V8XEB7 Exhaust Emission Control System \_\_\_\_\_CL (EFI) EGR-TWC RAIL & ENG. ENG. AIR ECM INJECTOR EGR VALVE В Т REV. CID CODE PART NO. PART NO. PART NO. ETW DIV В М TNS TLC NOTES COND  $\mathsf{BT}$ 231 Н 4,4A 16053684 25525639 17086704 3500 3 37 A-3 NGJ, C <u>4B</u> 16067034 25526959 NGK 4C 16071694 25529476 D 3625 C E 34 11 4D <u>16078984</u> G 4E 16081284 4 Н 37 34 C 69 F 234 Н 69 E NGK 16053724 3625 34 57 C <u>5A</u> <u>16067044</u> D 5B 16074444 Ε 5C 16078994 16061494 E 3625 34 57 C 16067054 6A D <u>6B</u> 16074454 6C 16079004 Ε

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.