

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-363  
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:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
H1G2.OV5XAG3	121 (2.0)	Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Central 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:

<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 this engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.20	1.7	0.3

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for 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 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 2<sup>nd</sup> day of July, 1986.

  
K. D. Drachand, Chief  
Mobile Source Division

17-H1G2.OV5XAG3-1A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: General Motors Corporation

Executive Order No.: A-6-363

Form 1

Engine Family: H1G2.OV5XAG3

Evaporative Family: 7B0-1G

Engine CID (Liters) - Type: 121 (2.0)

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  
-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/Aftercooler  
MFI-Mechanical Fuel Injection  
TC-Turbocharger

<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>
1				CHEVROLET	3				OLDSMOBILE
	J	C	27	Cavalier Notchback Coupe		J	C	27	Firenza Coupe
			35	Cavalier Station Wagon				35	Firenza Cruiser
			69	Cavalier Notchback Sedan				69	Firenza Sedan
		D	35	Cavalier CS Station Wagon				77	Firenza S Hatchback
			69	Cavalier CS Notchback Sedan			D	27	Firenza LC Coupe
			77	Cavalier CS Hatchback Coupe				69	Firenza LX Sedan
		E	27	Cavalier RS Notchback Coupe				77	Firenza GT Hatchback
			35	Cavalier RS Station Wagon					
			67	Cavalier RS Convertible Coupe					
			69	Cavalier RS Notchback Sedan					
			77	Cavalier RS Hatchback Coupe					
	L	T	69	Corsica Sedan					
		V	37	Beretta Specialty Coupe					

ENGINE/DRIVE AXLE LOCATION: Front Engine/Front Drive

ISSUED: 05-05-86

REV. NO.:

CL S

17-H1G2.OV5XAG3-2A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: General Motors Corporation      Executive Order No.: A-6-363      Form 1A

Engine Family: H1G2.OV5XAG3

Evaporative Family: 7B0-1G

Engine CID (Liters) - Type: 121 (2.0)

<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>
2				PONTIAC					
	J	B	35	Sunbird Wagon					
			69	Sunbird Sedan					
		D	27	Sunbird SE Coupe					
			77	Sunbird SE Hatchback Coupe					
4				BUICK					
	J	S	27	Skyhawk Custom Coupe					
			35	Skyhawk Custom Wagon					
			69	Skyhawk Custom Sedan					
			77	Skyhawk Sport Hatchback					
		T	27	Skyhawk Limited Coupe					
			35	Skyhawk Limited Wagon					
			69	Skyhawk Limited Sedan					
6				CADILLAC					
	J	G	69	Cimarron Sedan					

ENGINE/DRIVE AXLE LOCATION: Front Engine/Front Drive

ISSUED: 05-05-86

REV. NO.:

0038S

17-H1G2.OV5XAG3-3A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
GASOLINE-FUELED PASSENGER CARS

Manufacturer: General Motors Corporation Executive Order No.: A-6-363 Form 2

Engine Family: H1G2.OV5XAG3 Exhaust Emission Control System: EGR, TWC, CL (CFI)

Liter (CID): 121 (2.0) Engine Type: L4

ENG CID	ENG CODE	AIR COND	ECM PART NO.	TBI ASM PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	REV. NOTES	
121	<u>1.1A</u> 1B	W	<u>16049021</u>	17087401	17087145	2625	1	J	C	27	M-4	2 3	
			<u>16071371</u>										
							2750	1	J	E	27		
										J	27		
									1	J	35		
									1234	J	69		
									12 4	J	77		
									3	J C	77		
							2875	234	J		35		
								1	J		67		
								3	J	D	77		
							2625	12	J		27		2
								3	J	C	27		3
								4	J	S	27		
							12	J		69			
						2750	3	J	D	27			
							4	J	T	27			
							123	J		35			
							4	J	S	35			
							3	J		69			
							4	J	ST	69			
							1234	J		77			
						2875	4	J	T	35			
							1	J		67			

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: 05-05-86

REV. NO.: 002 - Engine codes 1A and 2A added.  
003 - Engine codes 1B and 2B added.

0038S/10S

17-H1G2.OV5XAG3-4A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
GASOLINE-FUELED PASSENGER CARS

Manufacturer: General Motors Corporation Executive Order No.: A-6-363 Form 2

Engine Family: H1G2.OV5XAG3 Exhaust Emission Control System: EGR, TWC, CL (CFI)

Liter (CID): 121 (2.0) Engine Type: L4

ENG CID	ENG CODE	AIR COND	ECM PART NO.	TBI ASM PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	REV. NOTES
121	<u>3.3A</u> 3B	W	<u>16049061</u> <u>16071381</u>	17087401	17087145	2625	1	J	C	27	M-5	2
						2750	1	J	E	27		3
							1	J	CD	35		
							1	J		69		
		1	J		77							
		2875	1	J	E	35						
		1	J		67							
			6	J		69						
		<u>3.3A</u> 3B		<u>16064271</u> <u>16071401</u>			3000	1	L	37		5
		3C		<u>16075541</u>				1	L	69		3
												4
	121	<u>4.4A</u> 4B	W/O	<u>16049061</u> <u>16071381</u>	17087401	17087145	2625	1	J		27	
							1	J	CD	69		3
2750							1	J		35		
							1	J	E	69		
		1	J		77							
		2875	1	J		67						
												3
		<u>4.4A</u> 4B		<u>16064271</u> <u>16071401</u>			3000	1	L	37		3,5
		4C		<u>16075541</u>				1	L	69		4,5

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: 05-05-86

REV. NO.: 002 - Engine codes 3A and 4A added.  
003 - Engine codes 3B and 4B added. 004 - Engine  
codes 3C and 4C added. 005 - Revised by RC 71-129.

0038S/10S

17-H1G2.OV5XAG3-5A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
GASOLINE-FUELED PASSENGER CARS

Manufacturer: General Motors Corporation Executive Order No.: A-6-363 Form 2

Engine Family: H1G2.OV5XAG3 Exhaust Emission Control System: EGR, TWC, CL (CFI)

Liter (CID): 121 (2.0) Engine Type: L4

ENG CID	ENG CODE	AIR COND	ECM PART NO.	TBI ASM PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	REV. NOTES					
121	<u>11,11A</u>	W	<u>16048981</u>	17087400	17087145	2750	1 34	J		27	A-3	2					
	11B		<u>16071361</u>				1	J	CD	69		3,5					
							1	J	D	77							
							2875	1 34	J			35					
								1	J	E		69	5				
									34	J		69					
								1	J	E		77					
									34	J		77					
								3000	1	J		67					
									6	J		69					
			<u>12,12A</u>				W/O	<u>16048981</u>				2625	1	J	C	27	
	12B	<u>16071361</u>									3						
						2750		1			J		E	27			
											34		J	27			
								1			J			35			
								1 34			J			69			
								1 34			J			77			
						2875		34			J			35			
								1			J			67			
	<u>13,13A</u>	W	<u>16064251</u>			3000	1	L		69		2,5					
	13B		<u>16071391</u>				1	L	37	3							
	<u>14,14A</u>	W/O	<u>16064251</u>			3000	1	L		37		2,5					
	14B		<u>16071391</u>				1	L	69	3							

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: 05-05-86

REV. NO.: 002 - Engine codes 11A, 12A, 13A and 14A  
added. 003 - Engine codes 11B, 12B, 13B and 14B  
added. 005 - Revised by RC 71-129.