

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-752-A  
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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1997 model-year General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: VGM3.8V8GKEK Displacement: 3.8 Liters (231 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Exhaust Gas Recirculation
- Three Way Catalytic Converter
- Heated Oxygen Sensors (two)
- Sequential Multiport Fuel Injection

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

The certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.25	3.4	0.4	10.0
100,000	0.31	4.2	0.6	n/a

The certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.06	0.9	0.2	3.8
100,000	0.06	1.0	0.3	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 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 Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

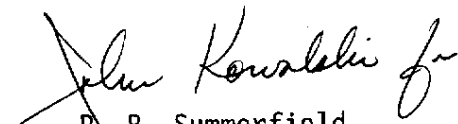
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned 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 provisions (Title 13, California Code of Regulations, 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 19<sup>th</sup> day of December 1995.

  
R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

(FOR CARB USE ONLY)

E.O. #A-6752-2  
A-6-752-A

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

VEHICLE MODELS: 1 ↓ Q 3 7 (EXAMPLE)

**Digit 1 - Selling Division**

- 1 - Chevrolet
- 2 - Pontiac
- 3 - Oldsmobile
- 4 - Buick
- 6 - Cadillac
- 8 - Saturn

**Digit 2 - Body Designation**

- C - Ninety-Eight, Park Avenue
- E - Eldorado
- F - Camaro, Firebird/Formula
- G - Riviera, Aurora
- H - Bonneville, Eighty-Eight, LeSabre
- J - Cavalier, Sunfire
- K - Seville
- Ksp - Deville/Concours
- N - Grand Am, Achieva, Skylark, Malibu, Cutlass Supreme
- V - Catera
- W - Grand Prix, Regal, Century, Lumina, Monte Carlo
- Y - Corvette
- Z - Saturn SC, SL, SW

**Digit 3 - Trim Level**

B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y, Z

**Digits 4 & 5 - Body Style**

- |                            |                            |
|----------------------------|----------------------------|
| 07 - 2Dr Sport Coupe       | 37 - 2Dr Hardtop Coupe     |
| 08 - 2Dr Hatchback Coupe   | 47 - 2Dr Hardtop Coupe     |
| 11 - 2Dr Notchback         | 57 - 2Dr Hardtop Coupe     |
| 15 - 2Dr Station Wagon     | 67 - 2Dr Convertible Coupe |
| 19 - 4Dr Sedan             | 68 - 4Dr Hatchback Sedan   |
| 23 - 4Dr Aux. Seat Sedan   | 69 - 4Dr (Notchback) Sedan |
| 27 - 2Dr (Notchback) Coupe | 77 - 2Dr Hatchback Coupe   |
| 29 - 4Dr Sedan             | 87 - 2Dr Hatchback Coupe   |
| 35 - 4Dr Station Wagon     | 90 - Commercial Chassis    |

ISSUED: ML-VP014

REVISED:

17-VGM3.8V8GKEK-1  
(1997)

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

FR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM3.8V8GKEK EVAP FAMILY: VGM1086AYMEA  
 ALL ENGINE CODES IN ENGINE FAMILY: CA ( ) 49S ( ) 50S (X) AB965 ( )  
 EXH STD: CA TIER-1 (X) TLEV ( ) LEV ( ) ULEV ( ) ZEV ( ); U.S. EPA TIER-1 (X)  
 EVAP STD: 50K ( ) USEFUL LIFE WITH R/L (X); IN-USE EXH STD: FULL (X) ALTERNATIVE ( )  
 VEH CLASS(ES): PC (X) LDT1 ( ) LDT2 ( ) MDV1 ( ) MDV2 ( ) MDV3 ( ) MDV4 ( ) MDV5 ( )  
 SINGLE CERT STANDARD FOR MULTI-CLASS ENGINE FAMILY: NA  
 FUEL TYPE(S): DEDICATED (X) GASOLINE (X); EMISSION TEST FUEL(S): INDOLINE ( ) PHASE 2 (X)  
 SERVICE ACCUMULATION: STD AMA (X) MFR ADP ( ); NMOG TEST PROCEDURE: NA (X) EQUIV ( )  
 R/L TEST PROCEDURE: NA ( ) PT SOURCE (X); HYBRID TYPE: NA APU CYCLE: NA  
 ENGINE CONFIGURATION: I4 ( ) V6 (X) V8 ( ) DISPLACEMENT: 3.8 LITERS / 231 CU. IN.  
 VALVES / CYLINDER: 2 (X) 4 ( ) RATED HP: 205 @ 5200 RPM  
 ENGINE LOCATION: FRONT (X) DRIVE: FWD (X) RWD ( ) 4WD-FT ( ) 4WD-PT ( )  
 EXHAUST EMISSION CONTROL SYSTEM: EGR-TWC-HO2S(2)-SFI  
 RLHP / DPA VALUES: SECTION 08.13.02.00

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST WEIGHT	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
	2HX69	A4/1	3875	16209020/16232044	17096199	25164361, 25165291
	3HC69					
	3HN69		3750			
	3HY69					
	4HP69					
	4HR69					

3A				16218060, 16218070/ 16239634		
3B				16218060, 16218070/ 16235584		
3C				16218060, 16218070/ 16242734		
3D				16218060, 16218070/ 16252924		

<u>CARLINE NAME</u>	<u>CARLINE CODE</u>
PONTIAC BONNEVILLE	33045
OLDSMOBILE EIGHTY-EIGHT / REGENCY	29025
BUICK LESABRE	08030

ISSUED: ML-VP014

REVISED: ML-VR001, ML-VR002, ML-VR008, ML-VR131

## 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM3.8V8GKEK EVAP FAMILY: VGM1086AYMEA

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST WEIGHT	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
4	2HZ69 3HC69 3HY69 2HX69 3HN69 4HP69 4HR69	A4/2	3875	16209020/16232074, 16209020/16232094	17095163, 17096199	25164361, 25165291
4A				16218060, 16218070/ 16239644		
4B				16218060, 16218070/ 16235594		
4C				16218060, 16218070/ 16242754		
				16218060, 16218070/ 16252944		

<u>CARLINE NAME</u>	<u>CARLINE CODE</u>
PONTIAC BONNEVILLE	33045
OLDSMOBILE EIGHTY-EIGHT / REGENCY	29025
BUICK LESABRE	08030

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

FR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM3.8V8GKEK EVAP FAMILY: VGM1086AYMEA  
 ALL ENGINE CODES IN ENGINE FAMILY: CA ( ) 49S ( ) 50S (X) AB965 ( )  
 EXH STD: CA TIER-1 (X) TLEV ( ) LEV ( ) ULEV ( ) ZEV ( ); U.S. EPA TIER-1 (X)  
 EVAP STD: 50K ( ) USEFUL LIFE WITH R/L (X); IN-USE EXH STD: FULL (X) ALTERNATIVE ( )  
 VEH CLASS(ES): PC (X) LDT1 ( ) LDT2 ( ) MDV1 ( ) MDV2 ( ) MDV3 ( ) MDV4 ( ) MDV5 ( )  
 SINGLE CERT STANDARD FOR MULTI-CLASS ENGINE FAMILY: NA  
 FUEL TYPE(S): DEDICATED (X) GASOLINE (X); EMISSION TEST FUEL(S): INDOLINE ( ) PHASE 2 (X)  
 SERVICE ACCUMULATION: STD AMA (X) MFR ADP ( ); NMOG TEST PROCEDURE: NA (X) EQUIV ( )  
 R/L TEST PROCEDURE: NA ( ) PT SOURCE (X); HYBRID TYPE: NA APU CYCLE: NA  
 ENGINE CONFIGURATION: I4 ( ) V6 (X) V8 ( ) DISPLACEMENT: 3.8 LITERS / 231 CU. IN.  
 VALVES / CYLINDER: 2 (X) 4 ( ) RATED HP: 205 @ 5200 RPM  
 ENGINE LOCATION: FRONT (X) DRIVE: FWD (X) RWD ( ) 4WD-FT ( ) 4WD-PT ( )  
 EXHAUST EMISSION CONTROL SYSTEM: EGR-TWC-HO2S(2)-SFI  
 RLHP / DPA VALUES: SECTION 08.13.02.00

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST WEIGHT	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
3	2HX69 3HC69 3HN69 4HP69 4HR69	A4/11	3875	16218060,16218070/ 16243664,16243904	17096199	25164361, 25165291
13A				16218060, 16218070/ 16253024, 16253054		
13B				16218060, 16218070/ 16257564, 16257594		
13C				16218060, 16218070/ 16259014, 16259344		

CARLINE NAME	CARLINE CODE
PONTIAC BONNEVILLE	33045
OLDSMOBILE EIGHTY-EIGHT / REGENCY	29025
BUICK LESABRE	08030

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM3.8V8GKEK EVAP FAMILY: VGM1086AYMEA

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST WEIGHT	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
14	2HZ69 3HC69 3HY69 2HX69 3HN69 4HP69 4HR69	A4/12	3875	16218060,16218070/ 16243694	17095163, 17096199	25164361, 25165291
14A				16218060, 16218070/ 16253084		
14B				16218060, 16218070/ 16257624		
14C				16218060, 16218070/ 16259374		

<u>CARLINE NAME</u>	<u>CARLINE CODE</u>
PONTIAC BONNEVILLE	33045
OLDSMOBILE EIGHTY-EIGHT / REGENCY	29025
BUICK LESABRE	08030

ISSUED: ML-VR008

REVISED: ML-VR066, ML-VR071, ML-VR115, ML-VR131

17-VGM3.8V8GKEK-2.6  
(1997)