

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-711
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 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TGM3.8V8GKEK 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	0.07	1.1	0.2	2.3
100,000	0.07	1.2	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 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model 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" 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 13th day of July 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

VEHICLE MODELS:

1 J C 3 7 (EXAMPLE)

Digit 1 - Selling Division

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

Digit 2 - Body Designation

- A - Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon
- B - Caprice, Caprice Wagon, Roadmaster Wagon, Coachbuilder Wagon, Roadmaster
- C - Ninety-Eight, Park Avenue
- D - Fleetwood, Limousine, Funeral Coach/Hearse
- E - Eldorado
- F - Camaro, Firebird/Formula
- G - Riviera, Aurora
- H - Bonneville, Eighty-Eight, LeSabre
- J - Cavalier, Sunfire
- K - Seville
- Ksp - Deville/Concours
- L - Corsica, Beretta
- N - Grand Am, Achieva, Skylark
- W - Grand Prix, Regal, Cutlass Supreme, 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 |

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM3.8V8GKEK EVAP. FAMILY: TGM1058AYMAA
 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_X USEFUL LIFE WITH R/L__ ; IN-USE EXH STD: FULL_X ALTERNATIVE__
 VEH CLASS(ES): PC_X LDT1__ LDT2__ MDV1__ MDV2__ MDV3__ MDV4__ MDV5__
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED_X GASOLINE_X ; EMISS TEST FUEL(S): INDO__ PHASE 2_X
 SERVICE ACCUM: STD AMA_X MFR ADP__ ; NMOG TEST PROC: NA EQUIV__
 R/L TEST PROC: NA PT SOURCE__ ; 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 (SEE PAGE 1)	VEH MODELS (SEE PAGE 1)	TRANS. (M5,A4 ETC.)	EQUIV. TEST WEIGHT	PCM PART NO./CALIB	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
5.5M	4WB19 4WD19 4WF19 4WF57 4WB57	A4/2	3750 3625	16209020/16227974	17096199	25162377
5A.5N				16209020/16231504		
5B.5P				16209020/16232234		
5C.5R				16209020/16238514		
5D.5S				16209020/16240644		

CARLINE NAME CARLINE CODE
 BUICK REGAL 08022

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM3.8V8GKEK EVAP. FAMILY: TGM1070AYMAA
 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 X USEFUL LIFE WITH R/L___ ; IN-USE EXH STD: FULL X ALTERNATIVE___
 VEH CLASS(ES): PC X LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED X GASOLINE X ; EMISS TEST FUEL(S): INDO___ PHASE 2 X
 SERVICE ACCUM: STD AMA X MFR ADP___ ; NMOG TEST PROC: NA EQUIV___
 R/L TEST PROC: NA PT SOURCE___ ; 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 (OC)	VEH MODELS (SEE PAGE 1)	TRANS. (M5,A4 ETC.)	EQUIV. TEST WEIGHT	PCM PART NO./CALIB	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
1.1M	3CX69 4CW69	A4/1	3875	16209020/16226484	17096199	25164361
1A.1N				16209020/16231444		
1B.1P				16209020/16231974		
1C.1R				16209020/16234094		
2.2M	3CX69 4CW69	A4/2		16209020/16226494		
2A.2N				16209020/16230384		
2B.2P				16209020/16231994		
2C.2R				16209020/16234104		

CARLINE NAME
 OLDSMOBILE NINETY EIGHT
 BUICK PARK AVENUE

CARLINE CODE
 08022
 08040

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM3.8V8GKEK EVAP. FAMILY: TGM1070AYMAA
 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 X USEFUL LIFE WITH R/L___ ; IN-USE EXH STD: FULL X ALTERNATIVE___
 VEH CLASS(ES): PC X LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED X GASOLINE X ; EMISS TEST FUEL(S): INDO___ PHASE 2 X
 SERVICE ACCUM: STD AMA X MFR ADP___ ; NMOG TEST PROC: NA EQUIV___
 R/L TEST PROC: NA PT SOURCE___ ; 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: 200 @ 5200 RPM
 ENGINE LOCATION: FRONT X DRIVE: FWD___ RWD X 4WD-FT___ 4WD-PT___
 EXHAUST EMISSION CONTROL SYSTEM: EGR-TWC-2HO2S+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	PCM PART NO./CALIB	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
7	1FP87 2FS87 1FP87 2FS67	A4/30	3740 3875	16177150/16227994	17094185, 17096198, 17095163	25165218
7A				16177150/16230594		
7B				16177150/16232474		
7C				16177150/16235674		
8	1FP87 2FS87 1FP67 2FS67	A4/31	3750 3875	16177150/16228074	17094185, 17095163, 17096198	25162001, 25165218
8A				16177150/16230604		
8B				16177150/16232884		
8C				16177150/16238384		
9	1FP87 2FS87 1FP67 2FS67	M5/49	3625 3875	16177150/16228104		25162001
9A				16177150/16230614		
9B				16177150/16232204		
9C				16177150/16238374		

CARLINE NAME	CARLINE CODE
CHEVROLET CAMARO	12025
PONTIAC FIREBIRD	33020

ISSUED: ML-TP085

REVISED: ML-TR023, ML-TR039, ML-TP134, ML-TR086

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM3.8V8GKEK EVAP. FAMILY: TGM1070AYPAA
 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_X USEFUL LIFE WITH R/L___ ; IN-USE EXH STD: FULL_X ALTERNATIVE___
 VEH CLASS(ES): PC_X LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED_X GASOLINE_X ; EMISS TEST FUEL(S): INDO___ PHASE 2_X
 SERVICE ACCUM: STD AMA_X MFR ADP___ ; NMOG TEST PROC: NA EQUIV___
 R/L TEST PROC: NA PT SOURCE___ ; 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 (QC)	VEH MODELS (SEE PAGE 1)	RANS. (M5,A4 ETC.)	EQUIV. TEST WEIGHT	PCM PART NO./CALIB	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
6	4GD07	A4/2	4000	16209020/16226504	17096199	25164363
6A				16209020/16230394		
6B				16209020/16232024		
6C				16209020/16234114		

CARLINE NAME
 BUICK RIVIERA

CARLINE CODE
 08045

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

R: GENERAL MOTORS CORP. ENGINE FAMILY: TGM3.BV8GKEK EVAP. FAMILY: TGM1076AYMEA
 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 STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED_X GASOLINE_X : EMISS TEST FUEL(S): INDO___ PHASE 2_X
 SERVICE ACCUM: STD AMA_X MFR ADP___ : NMOG TEST PROC: NA EQUIV___
 R/L TEST PROC: ___ 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	PCM PART NO./CALIB	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
3M	2HX69 3HN69 3HY69 4HP69 4HR69	A4/1	3750	16209020/16228044	17095163, 17096199	25152592, 25164361
3A,3N 3B,3P 3C,3R				16209020/16231524 16209020/16232044 16209020/16231234		
4,4M	2HZ69 2HX69 3HN69 3HY69 4HP69 4HR69	A4/2	3875 3750	16209020/16228054 16209020/16228064		
4A,4N				16209020/16230414 16209020/16231464		
4B,4P				16209020/16232074 16209020/16232094		
4C,4R				16209020/16234144 16209020/16234154		

CARLINE NAME	CARLINE CODE
PONTIAC BONNEVILLE	33045
OLDSMOBILE EIGHTY EIGHT	29025
CHEVROLET LESABRE	08030

ISSUED: ML-TP085 REVISED: ML-TR023, ML-TR035, ML-TR039, ML-TP134, ML-TR097