File

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:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
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:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
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

(FOR CARB USE ONLY)

E.O. #A-6-711

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

E.O. # A-6-711

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 (SC)	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	A4/2	3750	16209020/16227974	17096199	25162377
	4WD19					
	4WF19					
	4WF57					
	4WB57		3625			
5A,5N				16209020/16231504		
5B,5P				16209020/16232234		
5C,5R				16209020/16238514		
5D,5S				16209020/16240644		

CARLINE NAME	CARLINE CODE
BUICK REGAL	08022

ISSUED: ML-TP085 REVISED: ML-TR023, ML-TR039, ML-TP134, ML-TR074, ML-TR097

E.O. # A-6-711

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	CARLINE CODE
OLDSMOBILE NINETY EIGHT	08022
BUICK PARK AVENUE	08040

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

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

'FR: 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	A4/30	3740	16177150/16227994	17094185, 17096198,	25165218
	1FP87 2FS67		3875		17095163	
7A				16177150/16230594		
7B				16177150/16232474		
7C				16177150/16235674		
8	1FP87 2FS87	A4/31	3750	16177150/16228074	17094185, 17095163,	25162001, 25165218
	1FP67 2FS67		3875		17096198	
8A				16177150/16230604		
8B				16177150/16232884		
8C				16177150/16238384		
9	1FP87 2FS87	M5/49	3625	16177150/16228104		25162001
	1FP67 2FS67		3875			
9A				16177150/16230614		
9B				16177150/16232204		
9C				16177150/16238374		

CARLINE NAME	CARLINE CODE
CHEVROLET CAMARO	12025
'ONTIAC FIREBIRD	33020

ISSUED: ML-TP085 REVISED: ML-TR023, ML-TR039, ML-TP134, ML-TR086

E.O. # A-6-711

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 (LOC)	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	CARLINE CODE
BUICK RIVIERA	08045

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

E.O. # A-6-711-A

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

R: GENERAL MOTORS CORP. ENGINE FAMILY: TGM3.8V8GKEK 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				16209020/16231524		
3B,3P				16209020/16232044		
3C,3R				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
ICK LESABRE	08030

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