(Page 1 of 3)

#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-6-752 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 <u>Displacement</u>: 3.8 Liters (231 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Dual Heated Oxygen Sensors
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:

Mil <u>es</u>	Non-Methane Hy <u>drocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20<sup>0</sup>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:

Miles_	Non-Methane Hydrocarbons	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20<sup>0</sup>F)</u>
50,000	0.10	1.2	0.1	3.8
100,000	0.11	1.3	0.1	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 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  $\frac{19}{19}$  day of December 1995.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

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

**VEHICLE MODELS:** 

1 <u>J C 3 7</u> (EXAMPLE)

#### <u>Digit 1 - Selling Division</u>

- 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

- Cavalier, Sunfire

K - Seville

J

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

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 - Commercial Chassis

ISSUED: ML-VP014

REVISED:

17-VGM3.8V8GKEK-1 (1997)

### 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

EVAP FAMILY: VGM1070AYMAA MFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM3.8V8GKEK AB965() CA() 49S() 50S(X) ALL ENGINE CODES IN ENGINE FAMILY: 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 STANDARD FOR MULTI-CLASS ENGINE FAMILY: NA FUEL TYPE(S): DEDICATED (X) GASOLINE (X); EMISSION TEST FUEL(S): INDOLENE ( ) PHASE 2 (X) SERVICE ACCUMULATION: STD AMA(X) MFR ADP(); NMOG TEST PROCEDURE: NA(X) EQUIV(). APU CYCLE: NA HYBRID TYPE: NA R/L TEST PROCEDURE: NA(X) PT SOURCE(); ENGINE CONFIGURATION: I4() V6(X) V8() DISPLACEMENT: 3.8 LITERS / 231 CU. IN. RATED HP: 200 @ 5200 RPM VALVES / CYLINDER: 2(X) 4() DRIVE: FWD() RWD(X) 4WD-FT() 4WD-PT() ENGINE LOCATION: FRONT (X) EXHAUST EMISSION CONTROL SYSTEM: EGR-TWC-2HO2S-HO2S(2)-SFI RLHP / DPA VALUES: SECTION 08.13.02.00

ENG PDE PC)	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.
7	1FP87 2FS87	A4/30	3750	16177150/16232474	17096198, 17125506	25165218
	1FP67 2FS67		3875			
7A				16218060/16245314		
7B				16218060/16252294		
8	1FP87	A4/31	3750	16177150/16232884		
	2FS87 1FP67 2FS67		3875			
8A				16218060/16245334		
8B				16218060/162552314		
CHEVR	CARLINE N	AME	<del></del>	CARLINE CODE 12025		

33020

SSUED: ML-VP014

PONTIAC FIREBIRD/FORMULA

REVISED: ML-VR008, ML-VR071

# 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GE	NERAL MOTORS	CORP. ENGI	NE FAMILY:	VGM3.8V8GKEK	EVAP FAMILY: VGI	M1070AYMAA
ALL ENG	INE CODES IN EN	GINE FAMILY:	CA()	49S ( ) 50S (	X) AB965 (	)
				EV() ZEV();		
				IN-USE EXH STD: 1		
VEH CLA	SS(ES): PC(X)	LDT1() LE	OT2() ME	)V1() MDV2() 1	MDV3() MDV4(	) MDV5()
SINGLE	CERT STANDARD	FOR MULTI-CLA	SS ENGINE F	FAMILY: NA		
FUEL TY	PE(S): DEDICAT	ED(X) GASOL	INE(X);	EMISSION TEST FUEL	(S): INDOLENE (	) PHASE 2 (X
SERVICE	E ACCUMULATION	: STD AMA (X)	MFR ADP	( ); NMOG TEST	PROCEDURE: NA	(X) EQUIV()
R/L TES1	FPROCEDURE: N	NA(X) PTS	DURCE();	HYBF	RID TYPE: NA	APU CYCLE: N
ENGINE	CONFIGURATION	: I4() V6(X	) V8()	DISPLACEME	NT: 3.8 LITERS / 23	31 CU. IN.
				X) 4()		
ENGINE	LOCATION: FRO	NT(X)	DF	RIVE: FWD() RWI	D(X) 4WD-FT(	) 4WD-PT()
EXHAUS	T EMISSION CON	TROL SYSTEM:	EGR-TWC-2	HO2S-HO2S(2)-SFI		
RLHP/D	PA VALUES: SEC	CTION 08.13.02.0	0			
ENG	VEH MODELS	TRANC	EQUIV. TEST	IGNITION	EGR SYSTEM	
ODE	(SEE PAGE 1)	(M5,A4,ETC.)	WEIGHT	(PCM/CALIB PART N		
	1FP87			16177150/1623220		
9	2FS87	1413/49		10111100110202	17125506	25165218
	1FP67 2FS67		3875			
	2507				•	
9A				16218060/1624518	4	

**CARLINE CODE** 

12025

33020

SUED: ML-VP014

CHEVROLET CAMARO

PONTIAC FIREBIRD/FORMULA

CARLINE NAME

REVISED: ML-VR008, ML-VR029

# 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM3.8V8GKEK EVAP FAMILY: VGM1070AYMAA
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 STANDARD FOR MULTI-CLASS ENGINE FAMILY: NA
FUEL TYPE(S): DEDICATED ( X ) GASOLINE ( X ); EMISSION TEST FUEL(S): INDOLENE ( ) PHASE 2 ( X )
SERVICE ACCUMULATION: STD AMA ( X) MFR ADP ( ); NMOG TEST PROCEDURE: NA ( X ) EQUIV ( )
R/L TEST PROCEDURE: NA (X) 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() 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 'DE (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.
9	1FP87 2FS87	M5/49	3625	16177150/16232204	17096198, 17125506	25162001, 25165218
	1FP67 2FS67		3875			

CARLINE NAME
CHEVROLET CAMARO
PONTIAC FIREBIRD/FORMULA

12025 33020

ISSUED: ML-VP014

REVISED: