

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-718-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 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: TGM2.218GFEK Displacement: 2.2 Liters (134 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation  
Three Way Catalytic Converter  
Oxygen Sensor  
Heated Oxygen Sensor  
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>Loaded Vehicle Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
0-3750	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>Loaded Vehicle Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
0-3750	50,000	0.11	2.1	0.3	7.8
	100,000	0.17	2.8	0.4	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 11<sup>th</sup> day of September 1995.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Example, Pattern A: CC10703+E62  
Example, Pattern B: 1UM05

Digit 1 = Marketing Division

<u>Pattern A</u>	<u>Pattern B</u>
C = Chevrolet	1 = Chevrolet
T = GMC	2 = Pontiac
H = Oldsmobile	3 = Oldsmobile
G = Isuzu	

Note: Digit 1 is not used for Pattern A models on engine family pages or California Supplemental Data Sheets.

Digit 2 = Chassis Type (all)

U	= Conventional 4x2 Front Wheel Drive
C, S, M	= Conventional 4x2 Rear Wheel Drive
G	= Forward Control 4x2 Rear Wheel Drive
K, T, L	= Conventional 4x4 Four Wheel Drive, All Wheel Drive

Digit 3 = Series/GVWR

<u>Pattern A</u>	<u>Pattern B</u>
1 = 11,15,1500/3500-7300	Letter code designates trim level rather than series/GVWR.
2 = 21,25,2500/6400-8600	
3 = 31,35,3500/7100-14500	

Digits 4 & 5

<u>Pattern A = Dimensional Grouping</u>	<u>Pattern B</u>
05 = Blazer, Jimmy, Bravada	05 = Cargo (APV)
06 = S/T Short Box	06 = Passenger (Lumina APV, Trans Sport, Silhouette)
07 = C/K Short Box	
08 = S/T Long Box & Cab-Chassis	
09 = C/K Long Box, Suburban,	
10 = M/L Long Body	
14 = G Short Wheelbase	
17 = G Long Wheelbase	

Digits 6 & 7 = Body/Cab Codes (Pattern A Only)

03 = Conventional Cab, Cab-Chassis
05 = Cargo Van
06 = Passenger Van, 4 Door Special Purpose Vehicle
16 = 2 Door Special Purpose Vehicle
43 = Crew Cab
53 = Extended Cab

Pickup Body Codes (Optional, Used with Pattern A Only)

+E62 = Stepside, Fenderside
+E63 = Fleetside, Wideside
+ZW9 = Cab-Chassis

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM2.218GFEK  
 EVAP STD: 50K\_\_\_ USEFUL LIFE WITH R/L X EVAPORATIVE FAMILY: TGM1089AYMEA  
 EXH STD: TIER-0\_\_\_ TIER-1 X TLEV\_\_\_ LEV\_\_\_ ULEV\_\_\_ ZEV\_\_\_; EPA TIER-0\_\_\_ TIER-1 X  
 VEH CLASS(ES): PC\_\_\_ LDT1 X LDT2\_\_\_ MDV1\_\_\_ MDV2\_\_\_ MDV3\_\_\_ MDV4\_\_\_ MDV5\_\_\_  
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA  
 EXH CERT FUEL(S): INDO\_\_\_ PH2 X DIESEL: 13 CCR 2282\_\_\_ OR 40 CFR 86.113-90\_\_\_  
 OR -94\_\_\_ M85\_\_\_ CNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 FUEL TYPE(S): DEDICATED X FLEX-FUEL\_\_\_ DUAL-FUEL\_\_\_ GASOLINE X DIESEL\_\_\_ M85\_\_\_  
 CNG\_\_\_ LNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 HYBRID: TYPE A\_\_\_ B\_\_\_ C\_\_\_ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA  
 ENGINE CONFIGURATION: I4 DISPLACEMENT: 2.2 LITERS 134 CUBIC INCHES  
 ENGINE: FRONT X MID\_\_\_ REAR\_\_\_ DRIVE: FWD\_\_\_ RWD X 4WD-FT\_\_\_ 4WD-PT\_\_\_  
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: TWC, EGR, O2S, HO2S, SFI  
 RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
1A	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	A	3375  3500  3625	16215830/16231093	17096100, 17096306	25152988
1B				16215830/16234333		
1C				16215830/16235293		
2A	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63		3375  3500	16215830/16231093		
2B				16215830/16234333		
2C				16215830/16235293		

CARLINE NAME	CARLINE CODE
S10 PICKUP 2WD	55082
SONOMA 2WD	80072

ISSUED: ML-TP053 REVISED: ML-TR025A, ML-TR048, ML-TP141, ML-TR056, ML-TR056A

17-TGM2.218GFEK-2

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM2.218GFEK  
 EVAP STD: 50K\_\_\_ USEFUL LIFE WITH R/L\_X EVAPORATIVE FAMILY: TGM1089AYMEA  
 EXH STD: TIER-0\_\_\_ TIER-1\_X TLEV\_\_\_ LEV\_\_\_ ULEV\_\_\_ ZEVS\_\_\_; EPA TIER-0\_\_\_ TIER-1\_X  
 VEH CLASS(ES): PC\_\_\_ LDT1\_X LDT2\_\_\_ MDV1\_\_\_ MDV2\_\_\_ MDV3\_\_\_ MDV4\_\_\_ MDV5\_\_\_  
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA  
 EXH CERT FUEL(S): INDO\_\_\_ PH2\_X DIESEL: 13 CCR 2282\_\_\_ OR 40 CFR 86.113-90\_\_\_  
 OR -94\_\_\_ M85\_\_\_ CNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 FUEL TYPE(S): DEDICATED\_X FLEX-FUEL\_\_\_ DUAL-FUEL\_\_\_ GASOLINE\_X DIESEL\_\_\_ M85\_\_\_  
 CNG\_\_\_ LNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 HYBRID: TYPE A\_\_\_ B\_\_\_ C\_\_\_ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA  
 ENGINE CONFIGURATION: I4 DISPLACEMENT: 2.2 LITERS 134 CUBIC INCHES  
 ENGINE: FRONT\_X MID\_\_\_ REAR\_\_\_ DRIVE: FWD\_\_\_ RWD\_X 4WD-FT\_\_\_ 4WD-PT\_\_\_  
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: TWC, EGR, O2S, HO2S, SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
	JS10603+E63 S10603+E63 S10603+E62 S10803+E63	M	3375	16215830/16231063	17096100, 17096306	25152988
3B				16215830/16234293		
3C				16215830/16235253		
4A	S10603+E62 JS10603+E63 S10603+E62 S10803+E63		3250 3375	16215830/16231063		
4B				16215830/16234293		
4C				16215830/16235253		

CARLINE NAME	CARLINE CODE
S10 PICKUP 2WD	55082
SONOMA 2WD	80072
HOMBRE 2WD	82500

ISSUED: ML-TP053

REVISED: ML-TR025A, ML-TR048, ML-TP141, ML-TR056

17-TGM2.218GFEK-3

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM2.218GFEK  
 EVAP STD: 50K\_\_\_ USEFUL LIFE WITH R/L\_\_\_X EVAPORATIVE FAMILY: TGM1089AYMEA  
 EXH STD: TIER-0\_\_\_ TIER-1\_\_\_X TLEV\_\_\_ LEV\_\_\_ ULEV\_\_\_ ZEV\_\_\_; EPA TIER-0\_\_\_ TIER-1\_\_\_X  
 VEH CLASS(ES): PC\_\_\_ LDT1\_\_\_X LDT2\_\_\_ MDV1\_\_\_ MDV2\_\_\_ MDV3\_\_\_ MDV4\_\_\_ MDV5\_\_\_  
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA  
 EXH CERT FUEL(S): INDO\_\_\_ PH2\_\_\_X DIESEL: 13 CCR 2282\_\_\_ OR 40 CFR 86.113-90\_\_\_  
 OR -94\_\_\_ M85\_\_\_ CNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 FUEL TYPE(S): DEDICATED\_\_\_X FLEX-FUEL\_\_\_ DUAL-FUEL\_\_\_ GASOLINE\_\_\_X DIESEL\_\_\_ M85\_\_\_  
 CNG\_\_\_ LNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 HYBRID: TYPE A\_\_\_ B\_\_\_ C\_\_\_ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA  
 ENGINE CONFIGURATION: I4 DISPLACEMENT: 2.2 LITERS 134 CUBIC INCHES  
 ENGINE: FRONT\_\_\_X MID\_\_\_ REAR\_\_\_ DRIVE: FWD\_\_\_ RWD\_\_\_X 4WD-FT\_\_\_ 4WD-PT\_\_\_  
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: TWC, EGR, O2S, HO2S, SFI  
 RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
5A	S10653+E63 S10653+E63 S10803+E63	M	3500	16215830/16231073	17096100, 17096306	25152988
5B.6B				16215830/16234303		
5C				16215830/16235263		

CARLINE NAME	CARLINE CODE
S10 PICKUP 2WD	55082
SONOMA 2WD	80072

ISSUED: ML-TP053

REVISED: ML-TR025A, ML-TR048, ML-TP141, ML-TR056

17-TGM2.218GFEK-4