

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-719-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: TGM4.31PGFEK Displacement: 4.3 Liters (262 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:

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
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:

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
0-3750	50,000	0.11	1.4	0.2	3.2
	100,000	0.13	1.5	0.2	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.).


GENERAL MOTORS CORPORATION

EXECUTIVE ORDER A-6-719-A  
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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 30<sup>th</sup> day of August 1995.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.31PGFEK  
 EVAP STD: 50K ✗ USEFUL LIFE WITH R/L ✓ 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:  
 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: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES  
 ENGINE: FRONT X MID\_\_\_ REAR\_\_\_ DRIVE: FWD\_\_\_ RWD X 4WD-FT\_\_\_ 4WD-PT\_\_\_  
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), 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.
.4A	S10603+E62 S10603+E63 S10803+E63 TS10653+E62 S10653+E63 CS10653+E62	M5	3500 3625  3750	16200785/ 16192374-ENG 16187774-TRANS 16227245PF-OPER	17096188, 17096309	25152875
5.5A	S10603+E62 S10603+E63 S10803+E63 S10653+E63 S10653+E62	A4	3500 3625  3750	16187797-ENG 16187889, 16187890-TRANS		
6.6A	TS10603+E62 S10603+E63 S10803+E63 S10653+E62 CS10653+E62 S10653+E63		3500 3625  3750			

CARLINE NAME  
 CHEV S10 PICKUP 2WD  
 GMC SONOMA PICKUP 2WD

CARLINE CODE  
 55082  
 80072

ISSUED: ML-TR009

REVISED: ML-TR063

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.31PGFEK

MAP STD: 50K ~~X~~ USEFUL LIFE WITH R/L 

EVAPORATIVE FAMILY: TGM1089AYMEA

EXH STD: TIER-0\_\_\_ TIER-1  TLEV\_\_\_ LEV\_\_\_ ULEV\_\_\_ ZEV\_\_\_; EPA TIER-0\_\_\_ TIER-1 VEH CLASS(ES): PC\_\_\_ LDT1  LDT2\_\_\_ MDV1\_\_\_ MDV2\_\_\_ MDV3\_\_\_ MDV4\_\_\_ MDV5\_\_\_

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO\_\_\_ PH2  DIESEL: 13 CCR 2282\_\_\_ OR 40 CFR 86.113-90\_\_\_

OR -94\_\_\_ M85\_\_\_ CNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_

FUEL TYPE(S): DEDICATED  FLEX-FUEL\_\_\_ DUAL-FUEL\_\_\_ GASOLINE  DIESEL\_\_\_ M85\_\_\_

CNG\_\_\_ LNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_

HYBRID: TYPE A\_\_\_ B\_\_\_ C\_\_\_ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT  MID\_\_\_ REAR\_\_\_ DRIVE: FWD\_\_\_ RWD  4WD-FT\_\_\_ 4WD-PT\_\_\_

EXHAUST EMISSION CONTROL SYSTEM &amp; COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), 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.
4B	S10603+E62 S10603+E63 S10803+E63 TS10653+E62 S10653+E63 CS10653+E62	M5	3500 3625  3750	16200785/ 16227500-ENG 16227591-TRANS 16232915PG-OPER	17096188, 17096309	25152875
4C				16232334-ENG 16235505PH-OPER		
5B	S10603+E62 S10603+E63 S10803+E63 S10653+E63 S10653+E62	A4	3500 3625  3750	16227493-ENG 16187889, 16187890-TRANS		
5C				16232327-ENG		
6B	TS10603+E62 S10603+E63 S10803+E63 S10653+E62 CS10653+E62 S10653+E63		3500 3625  3750	16227493-ENG		
6C				16232327-ENG		

CARLINE NAME  
CHEV S10 PICKUP 2WD  
GMC SONOMA PICKUP 2WD

CARLINE CODE  
55082  
80072

ISSUED: ML-TR028

REVISED: ML-TR053, ML-TR063

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.31PGFEK  
 EVAP STD: 50K\* USEFUL LIFE WITH R/L ✓ 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:  
 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: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES  
 ENGINE: FRONT X MID REAR DRIVE: FWD RWD X 4WD-FT 4WD-PT  
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), 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.
4D	S10603+E62 S10603+E63 S10803+E63 TS10653+E62 S10653+E63 CS10653+E62	M5	3500 3625  3750	16200785/ 16232334-ENG 16227591-TRANS 16237015PJ-OPER	17096188, 17096309	25152875
5D	S10603+E62 S10603+E63 S10803+E63 S10653+E63 S10653+E62	A4	3500 3625 3750	16232327-ENG 16227559, 16227560-TRANS		
6D	TS10603+E62 S10603+E63 S10803+E63 S10653+E62 CS10653+E62 S10653+E63		3500 3625  3750			

CARLINE NAME  
 CHEV S10 PICKUP 2WD  
 GMC SONOMA PICKUP 2WD

CARLINE CODE  
 55082  
 80072

ISSUED: ML-TR063

REVISED:

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.31PGFEK

EVAP STD: 50K ~~X~~ USEFUL LIFE WITH R/L 

EVAPORATIVE FAMILY: TGM1089AYMEA

EXH STD: TIER-0\_\_\_ TIER-1  TLEV\_\_\_ LEV\_\_\_ ULEV\_\_\_ ZEV\_\_\_; EPA TIER-0\_\_\_ TIER-1 VEH CLASS(ES): PC\_\_\_ LDT1  LDT2\_\_\_ MDV1\_\_\_ MDV2\_\_\_ MDV3\_\_\_ MDV4\_\_\_ MDV5\_\_\_

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO\_\_\_ PH2  DIESEL: 13 CCR 2282\_\_\_ OR 40 CFR 86.113-90\_\_\_

OR -94\_\_\_ M85\_\_\_ CNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_

FUEL TYPE(S): DEDICATED  FLEX-FUEL\_\_\_ DUAL-FUEL\_\_\_ GASOLINE  DIESEL\_\_\_ M85\_\_\_

CNG\_\_\_ LNG\_\_\_ LPG\_\_\_ OTHER (SPECIFY)\_\_\_\_\_

HYBRID: TYPE A\_\_\_ B\_\_\_ C\_\_\_ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT  MID\_\_\_ REAR\_\_\_ DRIVE: FWD\_\_\_ RWD  4WD-FT\_\_\_ 4WD-PT\_\_\_

EXHAUST EMISSION CONTROL SYSTEM &amp; COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), 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.
7,7A	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	M5	3500 3625  3750	16200785/ 16187795-ENG 16187774-TRANS 16227245PF-OPER	17096188 17096309	25152875
7B				16227490-ENG 16232915PG-OPER		
7C				16232324-ENG 16235505PH-OPER		
8,8A	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63		3500 3625  3750	16187795-ENG 16187577PB-OPER		
8B				16227490-ENG 16232915PG-OPER		
8C				16232324-ENG 16185505PH-OPER		
<u>CARLINE NAME</u>		<u>CARLINE CODE</u>				
CHEV S10 PICKUP 2WD		55082				
GMC SONOMA PICKUP 2WD		80072				

ISSUED: ML-TR009

REVISED: ML-TR028, ML-TR053, ML-TR063

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MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.31PGFEK  
 EVAP STD: 50K ✗ USEFUL LIFE WITH R/L ✓ 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:  
 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: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES  
 ENGINE: FRONT\_X MID\_\_\_ REAR\_\_\_ DRIVE: FWD\_\_\_ RWD\_X 4WD-FT\_\_\_ 4WD-PT\_\_\_  
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI  
 RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE	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.
7D	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	M5	3500 3625  3750	16200785/ 16232324-ENG 16227591-TRANS 16237015PJ-OPER	17096188 17096309	25152875
8D	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63		3500 3625  3750			

CARLINE NAME  
 CHEV S10 PICKUP 2WD  
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CARLINE CODE  
 55082  
 80072

ISSUED: ML-TR063

REVISED: