

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-722
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 medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: TGM4.35PGFEK 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:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20⁰F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	120,000	0.46	6.4	0.98	n/a

The certification exhaust emission values for this engine family in grams per mile are:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20⁰F)</u>
3751-5750	50,000	0.15	1.6	0.6	3.9
	120,000	0.23	2.6	0.79	n/a

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).

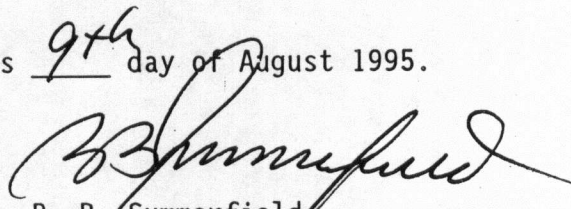
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned 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 9th day of August 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

Pattern A

- C = Chevrolet
- T = GMC
- H = Oldsmobile
- G = Isuzu

Pattern B

- 1 = Chevrolet
- 2 = Pontiac
- 3 = Oldsmobile

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

Pattern A

- 1 = 11,15,1500/3500-7300
- 2 = 21,25,2500/6400-8600
- 3 = 31,35,3500/7100-14500

Pattern B

Letter code designates trim level rather than series/GVWR.

Digits 4 & 5

Pattern A = Dimensional Grouping

- 05 = Blazer, Jimmy, Bravada
- 06 = S/T Short Box
- 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

Pattern B

- 05 = Cargo (APV)
- 06 = Passenger (Lumina APV, Trans Sport, Silhouette)

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

ISSUED: ML-TP056

REVISED:

17-TGM4.35PGFEK-1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.35PGFEK
 VAP STD: 50K X USEFUL LIFE WITH R/L___ EVAPORATIVE FAMILY: TGM1089AYMBA
 EXH STD: TIER-0___ TIER-1 X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1 X
 VEH CLASS(ES): PC___ LDT1___ LDT2___ MDV1___ MDV2 X 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: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES
 ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT X 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.
2.2M	L11005 L11006	A4	5000 5500	16200785/ 16187577PB-OPER 16187679-ENG 16187890, 16215601-TRANS	17096188, 17096309	25153034
2A.2N				16200785/ 16227245PF-OPER 16227410-ENG 16227560, 16227561-TRANS		
2B.2P				16200785/ 16232915PG-OPER 16227517-ENG 16227583, 16227582-TRANS		
2C.2Q				16232306-ENG 16235505PH-OPER		

CARLINE NAME	CARLINE CODE
ASTRO AWD CARGO	55047
ASTRO AWD PASSENGER	55062
SAFARI AWD CARGO	80037
SAFARI AWD PASSENGER	80052

ISSUED: ML-TP056

REVISED: ML-TP073, ML-TR010, ML-TR053, ML-TR066

17-TGM4.35PGFEK-2

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.35PGFEK
 EVAP STD: 50K_X USEFUL LIFE WITH R/L___ EVAPORATIVE FAMILY: TGM1089AYMBA
 EXH STD: TIER-0___ TIER-1_X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1_X
 VEH CLASS(ES): PC___ LDT1___ LDT2___ MDV1___ MDV2_X 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: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES
 ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT_X 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.
2D,2R	L11005 L11006	A4	5000 5500	16200785/ 16237015PJ-OPER 16232306-ENG 16227583, 16227582-TRANS	17096188, 17096309	25153034
2E,2S				16232388-ENG		

CARLINE NAME	CARLINE CODE
ASTRO AWD CARGO	55047
ASTRO AWD PASSENGER	55062
SAFARI AWD CARGO	80037
SAFARI AWD PASSENGER	80052

ISSUED: ML-TR066

REVISED: ML-TR077

17-TGM4.35PGFEK-2.1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.35PGFEK
 EVAP STD: 50K_X USEFUL LIFE WITH R/L___ EVAPORATIVE FAMILY: TGM1098AYMBA
 EXH STD: TIER-0___ TIER-1_X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1_X
 VEH CLASS(ES): PC___ LDT1___ LDT2___ MDV1___ MDV2_X 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: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES
 ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT___ 4WD-PT_X
 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.	EGR SYSTEM PART NO.	CATALYST PART NO.
3,4	K10703+E62 K10703+E63 K10903+E63 K10753+E62 K10753+E63	A4	5250 5500	16200785/BKCX 16187577PB-OPER 16187648-ENG 16187775, 16187776-TRANS	17096188, 17096309	25152823
3A,4A				16200785/BKCX 16227245PF-OPER 16227404-ENG 16227556, 16227557-TRANS		25160245
(C) 53, 54	K10703+E62 K10703+E63 K10903+E63	M5	5250	16200785/BKCX 16187577PB-OPER 16187642-ENG 16187774-TRANS		25152823
53A, 54A				16200785/BKCX 16227245PF-OPER 16227403-ENG 16227591-TRANS		25160245

CARLINE NAME	CARLINE CODE
K1500 PICKUP 4WD	55030
K1500 SIERRA 4WD	80020

ISSUED: ML-TP056 REVISED: ML-TP073, ML-TR010, ML-TR066

17-TGM4.35PGFEK-3

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-6-722

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.35PGFEK
 EVAP STD: 50K_X USEFUL LIFE WITH R/L___ EVAPORATIVE FAMILY: TGM1098AYMBA
 EXH STD: TIER-0___ TIER-1_X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1_X
 VEH CLASS(ES): PC___ LDT1___ LDT2___ MDV1___ MDV2_X 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: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES
 ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT___ 4WD-PT_X
 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.
3B,4B	K10703+E62 K10703+E63 K10903+E63 K10753+E62 K10753+E63	A4	5250 5500	16200785/ 16232915PG-OPER 16187648-ENG 16187775, 16187776-TRANS	17096188, 17096309	25160245
6	K10753+E63 K10753+E62			16235505PH-OPER 16232342-ENG		
6A				16237015PJ-OPER		
8	K10703+E62 K10703+E63 K10903+E63		5250	16235505PH-OPER 16232313-ENG		
8A				16237015PJ-OPER		
(C) 53B,54B	K10703+E62 K10703+E63 K10903+E63	M5		16200785/ 16232915PG-OPER 16227504-ENG 16227591-TRANS		
53C,54C				16235505PH-OPER 16232310-ENG		

CARLINE NAME	CARLINE CODE
K1500 PICKUP 4WD	55030
K1500 SIERRA 4WD	80020

ISSUED: ML-TR053

REVISED: ML-TR066

17-TGM4.35PGFEK-3.1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.35PGFEK
 EVAP STD: 50K_X USEFUL LIFE WITH R/L___ EVAPORATIVE FAMILY: TGM1098AYMBB
 EXH STD: TIER-0___ TIER-1_X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1_X
 VEH CLASS(ES): PC___ LDT1___ LDT2___ MDV1___ MDV2_X 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: 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.	EGR SYSTEM PART NO.	CATALYST PART NO.
(C) 51, 51M, 52, 52M	G11405	A4	5500	16200785/BKCX 16187577PB-OPER 16187762-ENG 16187776-TRANS	17096188, 17096309	25152823
51A, 51N, 52A, 52N				16200785/BKCX 16227245PF-OPER 16227405-ENG 16227557, 16227558-TRANS		25160245

CARLINE NAME	CARLINE CODE
CHEV VAN 2WD	55050
GMC SAVANA 2WD	80040

ISSUED: ML-TP056 REVISED: ML-TP073, ML-TR010, ML-TR066

17-TGM4.35PGFEK-5