

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-721
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: TGM4.32PGKEL 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)
3751-5750	50,000	0.32	4.4	0.7	12.5
	100,000	0.40	5.5	0.97	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)
3751-5750	50,000	0.15	1.6	0.5	3.5
	100,000	0.20	2.1	0.58	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

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	Pattern B
C = Chevrolet	1 = Chevrolet
T = GMC	2 = Pontiac
H = Oldsmobile	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	Pattern B
1 = 10,15,1500/3500-7300	Letter code designates trim level rather than series/GVWR.
2 = 20,25,2500/6400-8600	
3 = 30,35,3500/7100-14500	

Digits 4 & 5

Pattern A = Dimensional Grouping	Pattern B
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, M/L Short Body	
10 = G Short Wheelbase, M/L Long Body	
13 = 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
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: TGM4.32PGKEL

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 XVEH CLASS(ES): PC LDT1 LDT2 X 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.
2.2M	CM11005 TM11005 M11006	A4	4000 4250 4750	16200785/ 16187577PB-OPER 16187676-ENG 16187889, 16187890, 16215601-TRANS	17096188, 17096309	25153034
2A,2N				16200785/ 16227245PF-OPER 16227409-ENG 16227559, 16227560, 16227561-TRANS		
2B,2P				16235505PH-OPER 16232339-ENG		

CARLINE NAME	CARLINE CODE
CHEV ASTRO EXTENDED PASSENGER VAN 2WD	55060
CHEV ASTRO EXTENDED CARGO VAN 2WD	55045
GMC SAFARI XT EXTENDED CARGO VAN 2WD	80035
GMC SAFARI XT EXTENDED PASSENGER VAN 2WD	80050

ISSUED: ML-TP040

REVISED: ML-TP073, ML-TR004, ML-TR031, ML-TR053, ML-TR066

17-TGM4.32PGKEL-1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.32PGKEL

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 XVEH CLASS(ES): PC LDT1 LDT2 X 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.
2.2M	CM11005 TM11005 M11006	A4	4000 4250 4750	16200785/ 16187577PB-OPER 16187676-ENG 16187889. 16187890. 16215601-TRANS	17096188. 17096309	25153034
2A.2N				16200785/ 16227245PH-OPER 16227409-ENG 16227559. 16227560. 16227561-TRANS		
2B.2P				16235505PH-OPER 16232339-ENG		

CARLINE NAME	CARLINE CODE
CHEV ASTRO EXTENDED PASSENGER VAN 2WD	55060
CHEV ASTRO EXTENDED CARGO VAN 2WD	55045
GMC SAFARI XT EXTENDED CARGO VAN 2WD	80035
GMC SAFARI XT EXTENDED PASSENGER VAN 2WD	80050

ISSUED: ML-TP040

REVISED: ML-TP073, ML-TR004, ML-TR031, ML-TR053, ML-TR066

17-TGM4.32PGKEL-2

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.32PGKEL

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 X 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.
(NW) 2C.2Q	CM11005 TM11005 M11006	A4	4000 4250 4750	16200785/ 16237015PJ-OPER 16232339-ENG 16227582. 16227583. 16227586-TRANS	17096188. 17096309	25153034
2D.2R				16232385-ENG		
6.6M	M11005 M11006		4250 4750	16200785/ 1623915PG-OPER 16227517-ENG. 16227582. 16227583. 16227586-TRANS		

CARLINE NAME	CARLINE CODE
CHEV ASTRO EXTENDED PASSENGER VAN 2WD	55060
CHEV ASTRO EXTENDED CARGO VAN 2WD	55045
GMC SAFARI XT EXTENDED CARGO VAN 2WD	80035
GMC SAFARI XT EXTENDED PASSENGER VAN 2WD	80050

ISSUED: ML-TR066

REVISED: ML-TR077

17-TGM4.32PGKEL-2

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.32PGKEL
 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_X 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.
2C.2Q	CM11005 TM11005 M11006	A4	4000 4250 4750	16200785/ 16237015PJ-OPER 16232339-ENG 16227582, 16227583, 16227586-TRANS	17096188, 17096309	25153034
6.6M	M11005 M11006		4250 4750	16200785/ 1623915PG-OPER 16227517-ENG, 16227582, 16227583, 16227586-TRANS		

CARLINE NAME	CARLINE CODE
CHEV ASTRO EXTENDED PASSENGER VAN 2WD	55060
CHEV ASTRO EXTENDED CARGO VAN 2WD	55045
GMC SAFARI XT EXTENDED CARGO VAN 2WD	80035
GMC SAFARI XT EXTENDED PASSENGER VAN 2WD	80050

ISSUED: ML-TR066

REVISED:

17-TGM4.32PGKEL-2.1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.32PGKEL
 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 X 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.
1.4M	L11005	A4	4500	16200785/ 16187577PB-OPER 16187679-ENG 16187890. 16215601-TRANS	17096188, 17096309	25153034
4A,4N				16200785/ 16227245PF-OPER 16227410-ENG 16227560, 16227561-TRANS		
4B,4P				16235505PH-OPER 16232306-ENG		
6.6M				16200785/ 16232915PG-OPER 16227517-ENG 16227582. 16227583. 16227586-TRANS		

CARLINE NAME
 CHEV ASTRO EXTENDED PASSENGER VAN AWD
 GMC SAFARI XT EXTENDED CARGO VAN AWD

CARLINE CODE
 55047
 80037

ISSUED: ML-TP040 REVISED: ML-TP073, ML-TR004, ML-TR031, ML-TR053, ML-TR066

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.32PGKEL

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 X 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.
2,4P	L11005	A4	4500	16200785/ 16237105PJ-OPER 16232306-ENG 16227582. 16227583-TRANS	17096188	25153034
4D,4R				16232388-ENG		

CARLINE NAME
CHEV ASTRO EXTENDED PASSENGER VAN AWD
GMC SAFARI XT EXTENDED CARGO VAN AWD

CARLINE CODE
55047
80037

ISSUED: ML-TR066

REVISED: ML-TR077

17-TGM4.32PGKEL-3.1