

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-497-B
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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1991 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family: M3G2.5T5TEG2 Displacement: 2.5 Liters (151 Cu. In.)

Exhaust Emission Control Systems (Special Features):

- Three-Way Catalyst
- Oxygen Sensor
- Exhaust Gas Recirculation
- Throttle Body Electronic Fuel Injection
- On-Board Diagnostics

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0 - 3,750	0.39	9.0	0.7

The following are the certification emission values for this engine family:

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0 - 3,750	0.32	7.6	0.5

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Code of Regulations which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed models to the optional NOx standard based on actual sales of 1990 model-year California-certified light-duty trucks in the 0 - 3,750 pound loaded vehicle weight class.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Code of Regulations, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards 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" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

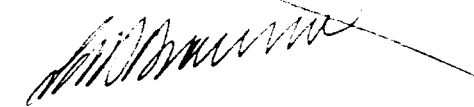
BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

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 (California Health and Safety Code Section 43205).

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 27th day of September, 1989.



K. D. Drachand, Chief
Mobile Source Division

(FOR CARB USE ONLY)

16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY..... M3G2.5T5TEG2

EVAPORATIVE FAMILY..... MBO-3A

CARLINES TO BE COVERED:

CARLINE NAME	CARLINE CODE
S10 P/U 2WD	55082
S15 P/U 2WD	80072

ISSUED: 07-03-89

REV. NO.: 001

16-M3G2.5T5TEG2-3

(FOR CARB USE ONLY)

16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY..... M3G2.5T5TEG2

EVAPORATIVE FAMILY..... MDOP-3A

CARLINES TO BE COVERED:

CARLINE NAME	CARLINE CODE
ASTRO 2WD (CARGO)	55045
SAFARI 2WD (CARGO)	80035

ISSUED: 001

16-M3G2.5T5TEG2-4

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

VEHICLE MODELS: C C 1 0 7 0 3 + E 6 3 (EXAMPLE)

Digit 1
Selling Division*

C-Chevrolet
T-GMC Truck

Digit 2
Chassis Type

C, M, R, S-Conventional
4x2
G-Forward Control 4x2
(Body Frame Integral)
K, T, V-Conventional 4x4

Digit 3
Series/GVWR Range

1-3500 to 7300 lbs
2-6400 to 8600 lbs
3-7100 to 14500 lbs

Digits 4 & 5
CA Dimension/Model Type

05-Blazer, Jimmy
06-S10/15
07-42"/Pickup, Chassis-Cab
09-56"/Suburban, Chassis-
Cab, Pickup, Astro, Safari
10-60" Chevy Van/Vandura,
Sportvan/Rally, Chassis-Cab
13-Chevy Van/Vandura,
Sportvan/Rally

Digits 6 & 7
Cab or Body Style

03-Conventional Cab
(S-T, C-K Models)
05-Chevy Van/Vandura &
Astro/Safari (Cargo)
06-Suburban/Sportvan/
Rally & Astro/Safari
(Passenger)
16-Blazer/Jimmy
53-Extended Cab
(S-T, C-K Models)

Digits 8, 9 & 10
Body Ordering Code

E62-Stepside/Fenderside
Pickup
E63-Fleetside/Wideside
Pickup
ZW9-Base Body

VEHICLE MODELS: 1 U M 0 6 (EXAMPLE)

Digit 1
Selling Division

1-Chevrolet
2-Pontiac

Digit 2
Body Designation

U-Lumina APV,
Trans Sport

Digit 3
Trim Level

H, M, S

Digits 4 and 5
Body Style

06-Van

* Digit 1 is not shown on subsequent pages. All vehicle models listed are sold by Chevrolet (C) and GMC Truck (T).

ISSUED: 001

REV. NO.:

17-TEG2

17-M3G2.5T5TEG2-4
(1991)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G2.5T5TEG2
 PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___
 ENGINE TYPE: I4 LITER (CID): 2.5 (151) EVAP FAMILY: MBO-3A
 EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)
 ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD X 4WD-FT___ 4WD-PT___
 CERTIFICATION STANDARDS: 0.39 NMHC, 9.0 CO, 0.7 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
11	S10603+E63 S10803+E63 S10653+E63	A4	3000 3125	16153711/ AUXF	17084743	25104939	LDA
12	S10603+E63 S10803+E63 S10653+E63		3000 3125 3250				

* Tune-up label codes are found in upper left hand corner of tune-up label. Vehicles with "LDA" or "LKX" on the label conform to 0.39 g/mi NMHC, 9.0 g/mi CO and 0.7 g/mi NOx.

ISSUED: 001

REV. NO.: 002
 003
 004 (RC M3-033)

17-M3G2.5T5TEG2-5.2
 (1991)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G2.5T5TEG2
 PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___
 ENGINE TYPE: I4 LITER (CID): 2.5 (151) EVAP FAMILY: MBOP-3A
 EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)
 ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD X 4WD-FT___ 4WD-PT___
 CERTIFICATION STANDARDS: 0.39 NMHC, 9.0 CO, 0.7 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
3	M10905	A4	3625	16086781/ ALVF	17088114	25104941	LKX
4	M10905						
9,10	M10905	M5	3625	16069371/ ACJU		25104941	

* Tune-up label codes are found in upper left hand corner of tune-up label. Vehicles with "LDA" or "LKX" on the label conform to 0.39 g/mi NMHC, 9.0 g/mi CO and 0.7 g/mi NOx.

ISSUED: 003

REV. NO.:

17-TEG2

17-M3G2.5T5TEG2-5.1
(1991)

ATTACHMENT I

TEST HORSEPOWER VALUES

Body Style	Test Weight Classes	50mph Road Load Hp	without AC Coast Dyno Down Hp	with AC Coast Dyno Down Hp	CD, CA or FA
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CHEVROLET S10 PICKUP 2WD (CS10603+E63,CS10653+E63,CS10803+E63)
 GMC S15 PICKUP 2WD (TS10603+E63,TS10653+E63,TS10803+E63)

w/P(195or205)/75R14 w/auto trans	3125-3500	15.47	10.6 13.99	11.6 13.14	CA
w/P(195or205)/75R14 w/auto trans	0-3000	15.07	10.6 12.45	11.6 11.56	CA
w/P(195or205)/75R14 w/man. trans	3125-3500	14.25	10.6 15.19	11.6 14.15	CA
w/P(195or205)/75R14 w/man. trans	0-3000	13.85	10.6 13.44	11.6 12.50	CA
w/P215/65R15s	3500 Only	15.47	11.1 14.00	12.2 13.00	CA
w/P215/65R15s	0-3375	14.40	10.4 14.52	11.4 13.56	CA

CHEVROLET ASTRO (CM10905,CM11005,CM10906,CM11006)
 GMC SAFARI (TM10905,TM11005,TM10906,TM11006)

w/(P195 & P205)/75R15 ALS	4000-4250	16.84	12.7 15.63	14.0 14.60	CD
w/(P195 & P205)/75R15 ALS	0-3875	15.49	12.0 15.46	13.3 14.39	CD
w/P245/60HR15 ALS	0-4250	19.38	13.1 13.60	14.4 12.72	CD