State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-498
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: M3G4.3T5XEB2 Displacement: 4.3 Liters (262 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:

Loaded Vehicle Weight(lbs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0 - 3,750	0.39	9.0	0.4
3,751 - 5,750	0.50	9.0	1.0

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

Loaded Vehicle Weight(lbs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0 - 3,750	0.28	6.0	0.1
3,751 - 5,750	0.28	6.1	0.1

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 29th ~~day~~ of September, 1989.

for K. D. Drachand, Chief
Mobile Source Division

A-6-498

(FOR CARB USE ONLY)

16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY..... M3G4.3T5XEB2

EVAPORATIVE FAMILY..... MBO-3E

CARLINES TO BE COVERED:

CARLINE NAME	CARLINE CODE
T10 P/U 4WD	55037
T10 BLAZER 4WD	55070
S10 P/U 2WD	55082
S10 BLAZER 2WD	55090
T15 P/U 4WD	80027
T15 JIMMY 4WD	80060
S15 P/U 2WD	80072
S15 JIMMY 2WD	80076
BRAVADA	92520

(FOR CARB USE ONLY)

E.O. # A-6-498

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
H-Oldsmobile

Digit 2
Chassis Type

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

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, Bravada
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), 4-Dr Blz/Jimmy/Bravada
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	Digit 2 Body Designation	Digit 3 Trim Level	Digits 4 and 5 Body Style
1-Chevrolet 2-Pontiac	U-Lumina APV, Trans Sport	H, M, S	06-Van

* Digit 1 is not shown on subsequent pages. All vehicle models listed are sold by Chevrolet (C) and GMC Truck (T); plus T10506 Oldsmobile Bravada (H).

ISSUED: 06-16-89 REV. NO.: 003

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT___ 4WD-PT_X_

CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
21	T10603+E63 T10803+E63 T10653+E63 T10516 T10506	A4	3875 4000 4250	16129851/ APAL	17088109	25101432LDF (MS 447), 25104269 (MS 461)	
21C				16155931/ AWLN			
22	T10603+E63 T10803+E63 T10653+E63 T10516 T10506**		3875 4000 4250	16129851/ APAL			
22C				16155931/ AWLN			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDF labels conform to the .50 HC; 1.0 NOx gm/mi standard.

** Includes Oldsmobile AWD Bravada model.

ISSUED: 06-16-89 REV. NO.: 001, 003, 004

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD_X_ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
21	S10603+E63 S10803+E63 S10653+E63 S10516	A4	3375 3500 3625	16129851/ APAL	17088109	25101432LDH (MS 447), 25104269 (MS 461)	
21C				16155931/ AWLN			
22	S10603+E63 S10803+E63 S10653+E63 S10516		3375 3500 3750	16129851/ APAL			
22C				16155931/ AWLN			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDH labels conform to the .39 HC; 0.4 NOx gm/mi standard.

ISSUED: 06-16-89 REV. NO.: 004

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD_X_ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
23	S10603+E63 S10803+E63 S10653+E63	M5	3250 3375	16129801/ APAC	17088109	25101432 (MS 447), 25104269 (MS 461)	LDH
23A				16143101/ ATAU			
23B				16151201/ AULZ			
24	S10603+E63 S10803+E63 S10653+E63		3375 3500	16129801/ APAC			
24A				16143101/ ATAU			
24B				16151201/ AULZ			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDH labels conform to the .39 HC; 0.4 NOx gm/mi standard.

ISSUED: 06-16-89 REV. NO.: 001, 002

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD_X_ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
25	S10603+E63 S10803+E63 S10653+E63 S10516	M5	3250 3375 3625	16129811/ APAD	17088109	25101432 (MS 447), 25104269 (MS 461)	LDH
25A				16143111/ ATAW			
25B				16151211/ AUMA			
26	S10603+E63 S10803+E63 S10653+E63 S10516		3375 3500 3625	16129811/ APAD			
26A				16143111/ ATAW			
26B				16151211/ AUMA			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDH labels conform to the .39 HC; 0.4 NOx gm/mi standard.

ISSUED: 06-16-89 REV. NO.: 001, 002

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT___ 4WD-PT_X_

CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
25	T10603+E63 T10803+E63 T10653+E63 T10516 T10506	M5	3875 4000 4250	16129811/ APAD	17088109	25101432 (MS 447), 25104269 (MS 461)	LDF
25A				16143111/ ATAW			
25B				16151211/ AUMA			
26	T10603+E63 T10803+E63 T10653+e63 T10516 T10506		3750 3875 4000	16129811/ APAD			
26A				16143111/ ATAW			
26B				16151211/ AUMA			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDF labels conform to the .50 HC; 1.0 NOx gm/mi standard.

ISSUED: 06-16-89 REV. NO.: 001, 002

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD_X_ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
27	S10603+E63 S10803+E63 S10653+E63 S10516	M5	3250 3375 3625	16129821/ APAF	17088109	25101432 (MS 447), 25104269 (MS 461)	LDH
27A				16143121/ ATAX			
27B				16151221/ AUMB			
28	S10603+E63 S10803+E63 S10653+E63 S10516		3375 3500 3625	16129821/ APAF			
28A				16143121/ ATAX			
28B				16151221/ AUMB			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDH labels conform to the .39 HC; 0.4 NOx gm/mi standard.

ISSUED: 06-16-89 REV. NO.: 001, 002

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT___ 4WD-PT_X_

CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
27	T10603+E63 T10803+E63 T10653+E63 T10516 T10506	M5	3750 3875 4000 4250	16129821/ APAF	17088109	25101432 (MS 447), 25104269 (MS 461)	LDF
27A				16143121/ ATAX			
27B				16151221/ AUMB			
28	T10603eE63 T10803+E63 T10653+E63 T10516 T10506		3875 4000 4250	16129821/ APAF			
28A				16143121/ ATAX			
28B				16151221/ AUMB			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDF labels conform to the .50 HC; 1.0 NOx gm/mi standard.

ISSUED: 06-16-89 REV. NO.: 001, 002, 005

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD_X_ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
21	S10506	A4	3875	16129851/ APAL	17088109	25101432LDF (MS 447), 25104269 (MS 461)	
21C				16155931/ AWLN			
22	S10506		3875	16129851/ APAL			
22C				16155931/ AWLN			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDF labels conform to the .50 HC; 1.0 NOx gm/mi standard.

ISSUED: 06-16-89 REV. NO.: 001, 004, 005

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD_X_ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
25	S10506	M5	3875	16129811/ APAD	17088109	25101432 (MS 447), 25104269 (MS 461)	LDF
25A				16143111/ ATAW			
25B				16151211/ AUMA			
26	S10506		3875	16129811/ APAD			
26A				16143111/ ATAW			
26B				16151211/ AUMA			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDF labels conform to the .50 HC; 1.0 NOx gm/mi standard.

ISSUED: 06-16-89 REV. NO.: 001, 002, 005

(FOR CARB USE ONLY)

E.O. # A-6-498

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M3G4.3T5XEB2

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL__

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: MBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD___ RWD_X_ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.	TLC*
27	S10506	M5	3750	16129821/ APAF	17088109	25101432 (MS 447), 25104269 (MS 461)	LDF
27A				16143121/ ATAX			
27B				16151221/ AUMB			
28	S10506		3875	16129821/ APAF			
28A				16143121/ ATAX			
28B				16151221/ AUMB			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. Vehicles with LDF labels conform to the .50 HC; 1.0 NOx gm/mi standard.

ISSUED: 002 REV. NO.: 005