

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-406  
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 1988 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
J3G4.3T5XEBX	4.3 (262)	Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst (Central 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</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0-3750	0.39	9.0	1.0
3751-5750	0.50	9.0	1.0

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

<u>Loaded Vehicle Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0-3750	0.30	6.6	0.0
3751-5750	0.34	8.0	0.2

BE IT FURTHER RESOLVED: That the listed models in the 0-3750 loaded vehicle weight class were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code 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 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 Administrative Code, 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

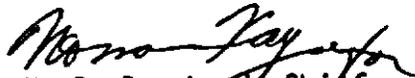
BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

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 regulations (Title 13, California Administrative Code, 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 23<sup>rd</sup> day of July, 1987.

  
K. D. Drachard, Chief  
Mobile Source Division

17-J3G4.3T5XEBX-1A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: General Motors Corporation                      Executive Order No.: A-6-406  
Engine Family: J3G4.3T5XEBX                                      Evaporative Family: JBO-3E  
Engine Displacement Liters (Cubic Inches) - Type: 4.3 (262) - V6  
Exhaust Emission Control System (Special Features): EGR, TWC, OS (CFI, OBD)

ABBREVIATIONS:

Ignition System

CA-Centrifugal Advance  
ECU-Electronic Control Unit  
EI-Electronic Ignition  
ESAC-Electronic Spark Advance Control  
VA-Vacuum Advance  
VR-Vacuum Retard

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
nV-nVenturi Carburetor  
VV-Variable Venturi

Other Abbreviations

A/C-Air Conditioning  
CID Cubic Inch Displacement  
ETW-Equivalent Test Weight  
FC Forward Control  
HD-Heavy Duty  
RI-Rail & Injector  
RWD-Rear Wheel Drive  
TBI-Throttle Body Injection  
4x2-Two Wheel Drive  
4x4-Four Wheel Drive  
6x4-Four Wheel Drive

Exhaust Emission Control System

AIP-Air Injection Pump  
AIV-Air Injection Valve  
EGR-Exhaust Gas Recirculation  
EIC-Electronic Injection Control  
EM-Engine Modification  
DBC-Dual Bed Catalyst  
HOS-Heated Oxygen Sensor  
OC-Oxidation Catalyst  
OS-Oxygen Sensor  
SPL-Smoke Puff Limiter or Throttle Delay  
TOC-Trap Oxidizer, Continual  
TOP-Trap Oxidizer, Periodical  
TR-Thermal Reactor  
TWC-Three-Way Catalyst  
WUOC-Warm-up Oxidation Catalyst  
WUTWC-Warm-up Three-Way Catalyst

Special Features

CCV-Combustion Chamber Valve  
CFI-Central Fuel Injection  
DID-Diesel Injection-Direct  
DIP-Diesel Injection-Prechamber  
EFI-Electronic Fuel Injection  
IC-Intercooler/Aftercooler  
MFI-Mechanical Fuel Injection  
OBD-On-Board Diagnostics  
TC-Turbocharger

ISSUED: 06-22-87

REV. NO.:

0300T

(For CARB Use Only)  
(1988)AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Executive Order No. A-6-406

## VEHICLE MODELS:

C C 1 0 7 0 3 + E 6 3 (EXAMPLE)Digit 1  
Selling DivisionC-Chevrolet  
T-GMC TruckDigit 2  
Chassis TypeC-Conventional 4x2  
G-Forward Control 4x2  
(Body Frame Integral)  
K-Conventional 4x4  
M-Forward Control 4x2  
(Body Frame Integral)  
P-Forward Control 4x2  
(Conventional)  
R-Conventional 4x2  
S-S10/15 4x2  
T-S10/15 4x4  
V-Conventional 4x4Digit 3  
Series/GVWR Range1-3400 to 7300 lbs  
2-6400 to 8600 lbs  
3-7400 to 14500 lbsDigits 4 & 5  
CA Dimension/Model Type05-Blazer/Jimmy, Step-Van/  
Valve Van  
06-S10/15  
07-42"/Pickup, Chassis-Cab  
08-FC or Motor Home Chassis,  
Step-Van/Value Van  
09-56"/Suburban, Chassis-  
Cab, Pickup  
10-60" FC Chassis, Chevy  
Van/Vandura, Sportvan/  
Rally, Chassis-Cab,  
Step-Van/Value Van  
11-Motor Home Chassis  
13-Chevy Van/Vandura,  
Sportvan/Rally, Cutaway  
Van/Vandura Special,  
Hi-Cube Van/Magnavan  
14-84"/FC or Motor Home,  
Chassis, Chassis-Cab,  
Step-Van/Value Van  
16-Cutaway Van/Vandura  
Special, Hi-Cube Van/  
Magnavan  
18-Motor Home ChassisDigits 6 & 7  
Cab or Body Style03-Conventional Cab  
(S10/15, C-K, R-V  
Models)  
-Cutaway Van/Vandura  
Special, Hi-Cube Van/  
Magnavan (G Models)  
05-Chevy Van/Vandura  
06-Suburban/Sportvan/  
Rally with Panel Rear  
Doors  
16-Blazer/Jimmy  
32-Motor Home Chassis  
42-Forward Control  
Chassis, Step-Van/  
Value Van  
43-Bonus Cab, Crew Cab  
53-Extended Cab  
(S10/15 Models)Digits 8, 9 & 10  
Body Ordering CodeZW9-Base Body  
C6P-HD Chassis; 8600 lb GVWR  
C7C-HD Chassis; 10500 lb GVWR  
C7E-HD Chassis; 11000 lb GVWR  
E31-Hi-Cube Van (10' Steel 96" Wide)  
E32-Step-Van/Value Van (Steel)  
E33-Step-Van/Value Van (Aluminum)E34-Hi-Cube Van (10' Steel 82" Wide)  
E36-Hi-Cube Van/Magnavan (10' Aluminum)  
E37-Utility Box (Aluminum)  
E38-Hi-Cube Van/Magnavan (12' Steel)  
E39-Hi-Cube Van/Magnavan (12' Aluminum)  
E62-Stepside/Fenderside Pickup  
E63-Fleetwide/Wideside PickupEngine Location: Front (All Vehicles)  
Drive Axle Location: See Chassis Type; All 4x2 Vehicles are RWD

ISSUED: 06-22-87

REV. NO.:

0300T

(For CARB Use Only)

(1988)

## AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_\_\_ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES\_\_\_ GAS X DIESEL\_\_\_

Liters (CID): 4.3 (262)

Type: V6

Executive Order No. A-6-406

ENG CODE	VEH MODELS	TRANS TYPE	ETH	IGN SYSTEM	FUEL SYSTEM	EGR VALVE PART NO.	CATALYST PART NO.	
				(ECU) PART NO.	(CFI) PART NO.			
21	S10603+E63	A4	3250	16079521A	17089018	17088109	25101432, 25104269	
	S10803+E63		3375					
	S10653+E63		3750					
	S10516							
22	S10603+E63		3375					
	S10803+E63		3500					
	S10653+E63							3750
	S10516							
23	S10603+E63		3250	16079531A				
	S10803+E63		3375					
	S10653+E63		3750					
	S10516							
	T10603+E63		3875					
	T10803+E63							
	T10653+E63							4000
	T10516							
S10803+ZW9								
24	S10603+E63		3375					
	S10803+E63		3500					
	S10653+E63							3750
	S10516							
	T10603+E63		3875					
	T10803+E63							
	T10653+E63							4000
	T10516							
S10803+ZW9								

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 06-22-87

REV. NO.: 002

0300T/28T

17-J3G4.3T5XEBX-3.1A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_\_\_ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES\_\_\_ GAS X DIESEL\_\_\_

Liters (CID): 4.3 (262)

Type: V6

Executive Order No. A-6-406

ENG CODE	VEH MODELS	TRANS TYPE	ETH	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (CFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
21A	S10603+E63 S10803+E63 S10653+E63 S10516	A4	3250 3375  3750	16079521	17089018	17088109	25101432, 25104269
22A	S10603+E63 S10803+E63 S10653+E63 S10516		3375  3500 3750				
23A	S10603+E63 S10803+E63 S10653+E63 S10516 T10603+E63 T10803+E63 T10653+E63 T10516 S10803+ZM9		3250 3375  3750  3875 4000	16079531			
24A	S10603+E63 S10803+E63 S10653+E63 S10516 T10603+E63 T10803+E63 T10653+E63 T10516 S10803+ZM9		3375  3500 3750  3875 4000				

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 001

REV. NO.: 002

0300T/28T

(For CARB Use Only)

(1988)

## AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_\_\_ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES\_\_\_ GAS X DIESEL\_\_\_

Liters (CID): 4.3 (262)

Type: V6

Executive Order No. A-6-406

ENG CODE	VEH MODELS	TRANS TYPE	ETH	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (CFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
23C	S10603+E63		3250	16125551	17089018	17088109	25101432, 25104269
	S10803+E63		3375				
	S10653+E63						
	S10516		3750				
	T10603+E63						
	T10803+E63						
	T10653+E63		3875				
	T10516		4000				
	S10803+ZW9						
24C	S10603+E63		3375				
	S10803+E63						
	S10653+E63		3500				
	S10516		3750				
	T10603+E63						
	T10803+E63		3875				
	T10653+E63		4000				
	T10516						

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 005

REV. NO.:

0300T/28T