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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-377 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 1987 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light duty trucks:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)		
H3G2.8T5TRY0	173	(2.8)	Air Injection Pump Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Electronic Fuel Injection)		

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

The following are the emission standards for this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0-3999	0.39	9.0	1.0
4000-5999	0.50	9.0	1.0

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

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3999	0.19	6.1	0.7
4000-5999	0.20	4.8	0.4

BE IT FURTHER RESOLVED: That the listed models in the 0-3999 equivalent inertia 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 1981 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 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 \mathcal{L}^{TV}

day of July, 1986.

K. D. Drachand, Chief Mobile Source Division

17-H3G2.8T5TRY0-1A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES AND HEAVY DUTY ENGINES

Manufacturer: General Motors Corporation

Executive Order No.: A-6-377

Engine Family: H3G2.8T5TRYO

Evaporative Family: 7B0-3B

Engine CID (Liters) - Type: 2.8 (173)

ABBREVIATIONS:

Ignition System

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

Fuel System
CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor

GM Abbreviations
A/C-Air Conditioning
FC-Forward Control
HD-Heavy Duty
CID-Cubic Inch Displacement
TBI-Throttle Body Injection
RWD-Rear Wheel Drive
4x2-Two Wheel Drive
4x4-Four Wheel Drive
6x4-Four Wheel Drive

Exhaust Emission Cont System
AIP-Air Injection Pump
AIV-Air Injection Valve
CL-Closed Loop
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst System
SPL-Smoke Puff Limiter or
Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
TR-Thermal Reactor
TWC-Three-Way Catalyst System

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

Special Features

Engine: Front (all Vehicles)

Drive: See Chassis Type (Page 2), all 4x2 vehicles are RWD.

ISSUED: 06-10-86

REV. NO.:

20800

17-H3G2.8T5TRY0-2A

(For CARB Use Only) (1987)

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

Manufacturer: General Motors Corporation

Engine Family: H3G2.8T5TRYO

Engine CID (Liters) - Type: 2.8 (173)

Executive Order No.: A-6-377

Evaporative Family: 7B0-3B

VEHICLE MODELS:

CC10703+E63 (EXAMPLE)

Digit 1 Selling Division

C-Chevrolet T-GMC Truck

Digit 2 Chassis Type

C-Conventional 4x2 G-Forward Control 4x2 (Body Frame Integral) K-Conventional 4x4 M-Forward Control 4x2 (Body Frame Integral) **₩**7-Forward Control 4x2 (Conventional) R-Conventional 4x2 S-S10/15 4x2 T-S10/15 4x4 V-Conventional 4x4

Digit 3 Series/GVWR Range

1-3400 to 7300 lbs 2-6400 to 8600 lbs 3-7400 to 14500 lbs

Digits 4 & 5 CA Dimension/Model Type

05-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/

Digits 6 & 7 Cab or Body Style

03-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 Code

ZW9-Base Body C6P-HD Chassis; 8600 1b GVWR C7C-HD Chassis: 10500 1b GVWR C7E-HD Chassis; 11000 1b 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 Pickup

SSUED: 06-10-86

REV. NO.:

Magnavan

18-Motor Home Chassis

20800

17-H3G2.8T5TRY0-3A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES GAS X DIESEL____

Manufacturer: General Motors Corporation Executive Order No.: A-6-377

Engine Family: H3G2.8T5TRYO Exhaust Emission Control System: AIP/CL/EGR/TWC (EFI)

Liter (CID): 2.8 (173)

Engine Type: V-6

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
1	CS10603+E63 CS10803+E63 CS10653+E63	M-4	3125 3250	16058041	17087087	17086720	25056471
	CS10516 CT10603+E63		3500		17087088		
	CT10803+E63 CT10803+E63	(1) (2)	3625 3750				
Ĺ	CT10653+E63 CT10653+E63	(2) (1)	3875 3750				
	CT105357203 CT10516	(1)	4000 3875				
2	CS10603+E63	(2)	3250		17087087		
	CS10603+E63 CS10803+E63	(1)	3125		17007007		
	CS10653+E63		3375 3625				
	CS10516 CT10603+E63	(2)	3750		17087088		
	CT10603+E63 CT10803+E63	(1)	3625				
	CT10653+E63 CT10516		3875 4000				r

(1) Trans code MC9

(2) Trans Code M73

Comments: See page one for abbreviations and evaporative emission family identification. 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.

ISC"ED: 06-10-86

REV. NO.: 002

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17-H3G2.8T5TRY0-4A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MEDIUM DUTY VEHICLES____ GAS_X DIESEL____

Manufacturer: General Motors Corporation

Executive Order No.: A-6-377

Engine Family: H3G2.8T5TRYO Exhaust Emission Control System: AIP/CL/EGR/TWC (EFI)

Liter (CID): 2.8 (173)

LIGHT DUTY TRUCKS X

Engine Type: V-6

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
3	CS10603+E63 CS10803+E63 CS10653+E63	M-5	3125 3250	16058091	17087087	17086720	25056471
	CS10516 CT10603+E63 CT10803+E63 CT10653+E63 CT10516		3625 3750 3875 4000		17087088		
	CS10603+E63 CS10803+E63 CS10653+E63 CS10516		3250 3375 3625		17087087		
	CT10603+E63 CT10803+E63 CT10653+E63 CT10516		3750 3875 4000		17087088		

Comments: See page one for abbreviations and evaporative emission family identification. 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.

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REV. NO.: 002

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17-H3G2.8T5TRY0-5A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES GAS X DIESEL

Manufacturer: General Motors Corporation

Executive Order No.: A-6-377

Engine Family: H3G2.8T5TRYO Exhaust Emission Control System: AIP/CL/EGR/TWC (EFI)

Liter (CID): 2.8 (173)

Engine Type: V-6

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
5	CS10516 CT10603+E63 CT10803+E63 CT10653+E63 CT10516	M-5	3500 3625 3750 3875 4000	16058101	17087087 17087088	17086720	25056471
6	CS10516 CT10603+E63 CT10803+E63 CT10653+E63 CT10516		3500 3625 3750 3875 4000		17087087 17087088		
7	CS10603+E63 CS10803+E63 CS10653+E63 CS10516	A-3	3125 3250 3625	16069481	17087086		
8	CS10603+E63 CS10803+E63 CS10653+E63 CS10516		3250 3375 3625				

Comments: See page one for abbreviations and evaporative emission family identification. 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.

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REV. NO.: 002

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00805/105

17-H3G2.8T5TRY0-6A

(For CARB Use Only)

(1987)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MEDIUM DUTY VEHICLES____

GAS X

Manufacturer: General Motors Corporation Executive Order No.: A-6-377

Engine Family: H3G2.8T5TRYO Exhaust Emission Control System: AIP/CL/EGR/TWC (EFI)

DIESEL

Liter (CID): 2.8 (173)

LIGHT DUTY TRUCKS X

Engine Type: V-6

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
13	CS10603+E63 CS10803+E63 CS10653+E63	A-4	3250 3375	16058031	17087086, 17087087	17086720	25056471
	CS10516 CT10603+E63 CT10803+E63		3625 3750		17087088		•
C	CT10653+E63 CT10516		3875 4000	,			
1 4	CS10603+E63 CS10803+E63 CS10653+E63		3250 3375		17087086, 17087084		
	CS10516 CT10603+E63 CT10803+E63		3625 3750		17087088		
	CT10653+E63 CT10516		3875 4000	·			
15	CS10803+ZW9		3875	16058111	17087086, 17087087		
16	CS10803+ZW9						

Comments: See page one for abbreviations and evaporative emission family identification. 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.

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REV. NO.: 002

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