

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-126  
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 General Motors Corporation exhaust emission control systems for 1978 model-year light-duty trucks are certified for the vehicles described below:

- Engine Family: 812R4
- Engine: 454 CID
- Transmission: 4-speed manual, 3-speed automatic
- Exhaust Emission Control System: Air Injection, Early Fuel Evaporation, Exhaust Gas Recirculation, Oxidation Catalyst.

Models and Engine Codes as listed in attachment.

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1978 model-year vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
812R4	0.3	15	1.8

BE IT FURTHER RESOLVED: That the above models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-6 series.

BE IT FURTHER RESOLVED: That the above models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-powered Motor Vehicles except Motorcycles".

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 29 day of August, 1977.



G. C. Hass, Chief  
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET-GM FORMAT

Manufacturer GENERAL MOTORS CORPORATION Executive Order No. A-6-126 Page 1

Engine Family 812R4 Engine (CID) 454

ABBREVIATIONS

Distributor

- C-Centrifugal Advance
- V-Vacuum Advance
- VR-Vacuum Retard
- HEI-High Energy Ignition Fuel System
- EFI
- nV-nVenturi Carburetor

Exhaust Emission Control

- AI-Air Injection
- CAI-Catalyst Air Injection
- EFI-Electronic Fuel Injection
- EGR-Exhaust Gas Recirculation
- EM-Engine Modification
- EFE-Early Fuel Evaporation

- ESAC-Electronic Spark Advance Control
- OC-Oxidation Catalyst
- OS-Oxygen Sensor
- PAI-Pulse Air Injection
- TC-Turbo Charged
- TWC-Three Way Catalyst

TRUCK MODEL IDENTIFICATION

1. C = Chevrolet; Y = GMC Truck C C 10703

2. Chassis Type \_\_\_\_\_

3. GVW Range \_\_\_\_\_

4. CA Dimension Model Type \_\_\_\_\_

5. Cab or Body Style \_\_\_\_\_

② Chassis Type

- C-Conventional 4 x 2
- G-Forward Control 4 x 2 (Body-Frame Integral)
- K-Conventional 4 x 4 (Four Wheel Drive)
- P-Forward Control 4 x 2 (Conventional)

③ Series GVW Range

- 1-4900 to 7300
- 2-6400 to 8400
- 3-6400 to 14,900

⑤ Cab or Body Style

- 03-Conventional Cab (C-K models); Cutaway Van, Hi-Cube Van (G models)
- 05-Chevy Van, Vandura
- 06-Suburban/Sportvan, Rally Wagon with Panel Rear Door
- 16-Blazer, Jimmy
- 32-Motor Home Chassis
- 42-Forward Control Chassis, Step-Van, Value Van
- 43-Bonus Cab, Crew Cab

④ CA Dimension Model Type

- 05-Blazer, Jimmy, Step-Van, Value Van
- 07-42"/Pickup, Chassis-Cab
- 08-FC or Motor Home Chassis, Step-Van, Value Van
- 09-36"/Suburban, Chassis-Cab, Pickup
- 10-60"/FC Chassis, Chevy Van, Vandura, Sportvan, Rally Wagon, Chassis-Cab, Step-Van, Value Van
- 11-Motor Home Chassis
- 13-Chevy Van, Vandura, Sportvan, Rally Wagon, Cutaway Van, Hi-Cube Van
- 14-84"/FC or Motor Home Chassis, Chassis-Cab, Step-Van, Value Van
- 16-Cutaway Van, Hi-Cube Van
- 18-Motor Home Chassis

⑥ Body Code

- ZW9-Base Body
- Z58-Blazer, Jimmy w/White Top
- Z59-Blazer, Jimmy w/Black Top
- Z64-RV Cutaway Van
- 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 (96" Wide 10' Aluminum)
- E38-Hi-Cube Van (12' Steel 96" Wide)
- E39-Hi-Cube Van (96" Wide 12' Aluminum)
- E55-Suburban (w/End Gate)
- E62-Stepside (Fenderside) Pickup
- E63-Fleetside (Wide Side) Pickup
- E94-Beauville Sportvan, Rally STX

⑦ Engine Code

- LD4-250 Six
- LD5-292 Six
- LD9-305-2 V8
- LS9-350-4 V8
- LF4-400-4 V8
- LF8-454-4 V8

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Light Duty Trucks  Medium Duty Vehicles

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-126 Pg. 2

Engine Family 812R4 Engine (CID) 454 Transm. \_\_\_\_\_

Exhaust Emission Control System AI,FFE,EGR,OC +10% (A/C) Yes  No

Eng. Code	Air Cond.	Distrib. Type HEI C,V Mfgr. Part No.	Fuel System 4V Mfgr. Part No.	EGR System Part No. Service	Inertia Wt. Class	See Page One for:		Trans- mission	Tune-up Label & Page No.	Rev. Notes
						Model Code	Body Code(s)			
1	WO	Delco 1103358	Rochester 17058521	17056768 No Service	4500	CC10703	E63	A-3	LR 3	
						T C T	E62			
2	W		17058520		5000	CC10903	E63			
						T C T	E62			
						CC10703	E63			
						T C T	E62			
						CC10903	E63			
						T C T	E62			


Comments: See page one for abbreviations.

Date of Issue 092177. Revisions:

Manufacturer: General Motors Corporation

Executive Order No. A-6-126 Pg. 3

**LR**  
454 CU. IN.  
812RA  
88FV

**VEHICLE EMISSION CONTROL INFORMATION**  
GENERAL MOTORS CORPORATION 

**SET PARKING BRAKE AND BLOCK DRIVE WHEELS.**

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED, AND AIR CONDITIONING OFF, EXCEPT WHERE NOTED.

1. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED. UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTOR.
2. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CANISTER PURGE HOSE AT CANISTER. ADJUST CARBURETOR SPEED SCREW TO OBTAIN SPECIFIED CURB IDLE SPEED.
3. ON AUTOMATICS WITH AIR CONDITIONING: DISCONNECT ELECTRICAL LEAD FROM AIR CONDITIONING COMPRESSOR. WITH AIR CONDITIONING SWITCH ON AND SOLENOID FULLY EXTENDED, ADJUST SOLENOID SCREW TO SPECIFIED RPM. RECONNECT COMPRESSOR LEAD TURN AIR CONDITIONING SWITCH OFF.
4. WITH TRANSMISSION IN PARK OR NEUTRAL, ADJUST FAST IDLE SCREW TO SPECIFIED SPEED ON HIGH STEP OF CAM. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CANISTER PURGE HOSE TO CANISTER.

**CATALYST**

AIR-EGR-EE  
LOW ALTITUDE CERTIFICATION

TIMING (° BTC @ RPM)	TRANSMISSION	
	AUTOMATIC	MANUAL
SPARK PLUG GAP (IN.)	0.045	0.045
CURB IDLE SPEED (RPM)	550 (DR)	700 (M)
FAST IDLE SPEED (RPM)	1600 (P) OR (M)	1600 (M)
SOLENOID ASM. ADJUSTMENT WITH AIR COND. (RPM)	600 (DR)	—

**[NOTE]** IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT FACTORY — DO NOT BREAK CAPS — ADJUSTMENT DURING TUNE UP IS NOT RECOMMENDED.

FOR MAJOR REPAIR, ADJUSTING MIXTURE SETTING BY OTHER THAN APPROVED SERVICE MANUAL PROCEDURE MAY VIOLATE FEDERAL AND/OR CALIFORNIA OR OTHER STATE LAWS.

SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE I FOR ADDITIONAL INFORMATION.

THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR VEHICLES.

PT. NO. 473500