

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-114  
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: 812F1SU
- Engine: 250 CID
- Transmission: 3 and 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>
812F1SU	0.5	6	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".

GENERAL MOTORS CORPORATION

2.

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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 2 day of September, 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-6-114 Page 1

Engine Family 812F1SU Engine (CID) 250

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; T = 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—4800 to 7300  
 2—6400 to 8400  
 3—6400 to 14,500

**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 Doors  
 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—56"/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—Fleethide (Wide Side)  
 Pickup  
 E94—Beauville Sportvan,  
 Rally STX

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Light Duty Trucks  Medium Duty Vehicles

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-114 Pg. 2

Engine Family 812F1SU Engine (CID) 250 Transm. M-3,4

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

Eng. Code	Air Cond.	Distrib. Type HEI C,V Mfgr. Part No.	Fuel System 1V 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	W or WO	Delco 1110715	Rochester 17058311 (C Trucks) 17058313 (G Trucks)	17057906 No Service	4000	CC10703	E62	M-3,4	XX 4 or XY 4	
						T	E63			
						C	E62	M-3		
						T	E63			
						CC10903	E62	M-3		
						T	E63			
						C	None			
						T	None			
						CC11005	None	M-3		
						T	None			
4500						CC10903	E63	M-3,4		
						T	None			M-3
						CG11006	None			
						T				
						CG11305				
						T				
CG11306										
T										
C	E94									
T										

Comments: See page one for abbreviations. Label XX is for single evap. canister, XY is for dual canisters.

Date of Issue 101777 Revisions:

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Light Duty Trucks  Medium Duty Vehicles

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-114 Pg. 3

Engine Family 812F1SU Engine (CID) 250 Transm. A-3

Exhaust Emission Control System A1,EFE,EGR,OC +10% (A/C) Yes  No

Eng. Code	Air Cond.	Distrib. Type HEI C,V Mfgr. Part No.	Fuel System 1V Mfgr. Part No.	EGR System Part No. Service	Inertia Wt. Class	See Page One for:		Transmission	Tune-up Label & Page No.	Rev. Notes
						Model Code	Body Code(s)			
2		1110719	17058310 (C Trucks) 17058312 (G Trucks)	17056729	4000	CC10703	E62	A-3	XX 4 or XY 4	
						T C T CC10903 T CG11005 T	E63 E62 None			
					4500	CC10903 T CG11006 T CG11305 T CG11306 T C T	E63 None E94			

Comments: See page one for abbreviations. Label XX is for single evap. canister, XY is for dual canisters.

Date of Issue 101777 Revisions:

Light Duty Trucks  Medium Duty Vehicles

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-114 Pg. 4

Engine Family 812F1SU Engine (CID) 250 Transm. \_\_\_\_\_

**XX**

250 CU. IN.  
812F1SU  
800V

**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.

1. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED.
2. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CANISTER PURGE HOSE AT CANISTER. TURN CARBURETOR SOLENOID TO OBTAIN SPECIFIED CURB IDLE SPEED. UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTOR.
3. DISCONNECT ELECTRICAL LEAD AT SOLENOID. ADJUST BASE IDLE SPEED TO SPECIFICATION BY TURNING 1/8 HEX. SCREW LOCATED IN END OF SOLENOID BODY. RECONNECT ELECTRICAL LEAD.
4. WITH TRANSMISSION IN PARK OR NEUTRAL, BEND FAST IDLE CAM FOLLOWER TO OBTAIN SPECIFIED FAST IDLE SPEED ON HIGH STEP OF CAM. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CANISTER PURGE HOSE TO CANISTER.

**CATALYST**

AIR-EGR-EFE  
LOW ALTITUDE CERTIFICATION

TRANSMISSION

	AUTOMATIC	MANUAL
	TIMING (° BTC @ RPM)	10° @ 600
SPARK PLUG GAP (IN.)	0.035	0.035
CURB IDLE SPEED (RPM)	600 (DR)	750 (N)
BASE IDLE SPEED (RPM)	425 (DR)	425 (N)
FAST IDLE SPEED (RPM)	2100 (P) OR (N)	2100 (N)

**[NOTE]** IDLE MIXTURE SCREW IS PRESET AND CAPPED AT FACTORY — DO NOT BREAK CAP — 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 B FOR ADDITIONAL INFORMATION.

PRINTED IN U.S.A.

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

PT. NO. 473407

7-25

**XY**

250 CU. IN.  
812F1SU  
800V

**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.

1. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED.
2. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CANISTER PURGE HOSE AT CANISTER. TURN CARBURETOR SOLENOID TO OBTAIN SPECIFIED CURB IDLE SPEED. UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTOR.
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4. WITH TRANSMISSION IN PARK OR NEUTRAL, BEND FAST IDLE CAM FOLLOWER TO OBTAIN SPECIFIED FAST IDLE SPEED ON HIGH STEP OF CAM. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CANISTER PURGE HOSE TO CANISTER.

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	TIMING (° BTC @ RPM)	10° @ 600
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